

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19160	49528	A	19269	351	509	VVPLPLPLDSWTCESWLRSHI LTGESENPDHKRI*PYTSDLPEG PGPWATD
19161	49529	A	19270	781	4324	ESVREKVLCLGIQQTIVTVC/W SGTYIFAVLLVCVVFHSGAQEK NYTIREIPEENVLIGNLLKDLNL SLIPNKSLLTTMQFKLVYKTDG VPLIRIEEDTGEIFTTGARIDREK LCAGIPRDEHCFYEVEVAILPDE IFRLVKIRFLIEDINDNAPLPFAT VINISIPENSAINSKYTLPAAVDP DVGINGVQNYELIKSQNIFGLD VIETPGGDKMPQLIVQKELDRE EKDTYVMKVKVEDGGFPQRSS
19162	49530	A	19271	3	644	FRSLPRCLPRWQPSFLGHHG PPFRPPCEAPKIVKKENPRKFIR APSGTYGAKLSVNWRTPEAI DNVRVRRRFKGGILMPANIGYG SNKKTKHMLPSGFRKFLVHN VKEPEIAADVATNLTVPRSLTM FPPNRKAIARGKACPIGPRSS PNPIARVAQLKEN*VRQLMCN KSYCAEIAHNVSSKNRKAIVER AAQLAIRVTNPNRARQ
19163	49531	B	19272	27	161	
19164	49532	A	19273	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTF
19165	49533	A	19274	482	832	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTF
19166	49534	A	19275	121	201	SMYMDEN*RLLELTL*FSSMYM DHSL
19167	49535	B	19276	1	1147	
19168	49536	A	19277	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19169	49537	A	19278	133	527	GFLERPRILIKVTLSIKQKSTSIF VGGQFSKFRFLTVLAWKCLSQP CF*A*TPASQHVS*SIRAISMSIS KRSELLVRLWRRPSP*AGLFKS RKVSSICIRFE*ILTSCLGVRIST GKLVARTHGSFADAE
19170	49538	A	19279	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE

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19171	49539	A	19280	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVAIRACPL YLLTGLISVSKNGLWYCELOSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19172	49540	A	19281	10	426	
19173	49541	A	19282	1	900	
19174	49542	A	19283	314	451	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADE
19175	49543	A	19284	1	1139	MWVGISRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYRLRVGKNLHVSAAGLGK SQERRKALKSQPPQADSPFS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSGFWLYF
19176	49544	A	19285	1	864	
19177	49545	A	19286	306	444	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADE
19178	49546	A	19287	189	1089	HHTAHQ*CWL*/SDHGINPLRS WVG*G*/V/GVRGKVQYADLGA ENWKPSINLHDMSSSHSKTLGY KRLTKSNPISCQILLYKRSRGR KNQRSTRTHCHHPSPKIYSASA KEPWVLAATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHRSRTSSSERFIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPELEFPKREDQ EGSPPETSLPYKVVVEAANLLI PAVGSSLSEALDLIES
19179	49547	A	19288	1	549	
19180	49548	A	19289	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVAIRACPL YLLTGLISVSKNGLWYCELOSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
19181	49549	A	19290	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVAIRACP LYLLTGLIFVSKNDLWYCELOSH HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF
19182	49550	A	19291	773	1015	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSAFADF STDLYHGTLKPASLTMSGVVLL GRMLARSARNWS

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19183	49551	B	19292	1	1488	
19184	49552	A	19293	2	133	YAQTDDNRRNLINGTPLRRVK VLVFDIEYP**KVYGYNSTLA
19185	49553	B	19294	1	879	
19186	49554	A	19295	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGILFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF
19187	49555	B	19296	1	1575	
19188	49556	C	19297	1	2187	
19189	49557	A	19298	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT
19190	49558	A	19299	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19191	49559	A	19300	876	1005	
19192	49560	A	19301	167	263	KLIEAIWSS*FITGSSLRHNERLG ASTSSGEY
19193	49561	A	19302	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19194	49562	C	19303	1	1641	
19195	49563	A	19304	1221	1327	ALHPRNRHLHKERLGCIPVAC* LYLFGQYDAHCTC
19196	49564	C	19305	1	1353	
19197	49565	B	19306	1	2047	
19198	49566	A	19307	80	429	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGILFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMNTNF

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19199	49567	A	19308	1	2597	MAMFMLLAAALLSTFLTNDVA LYTVVPLTITLKRCEIPYNRLII FEGAGSQRWVFATDANWQPAK YSYLGTFWFSVCRIYCPNGTAG WRNDADAPAPVVLAMQYHTGV QTPWKPRLVWSCLGLYIVFLT ALEFKQELWGLVIVAAGFALL ARRVLSVDWTLVLFVFMAMFI DVHLLTQLPALQGVLGNVISNV PSTILLNYPVPSLLLVWAVNV GGFGFLTTCRHARIAAPADLKDG LAVHEKRETRSLTEKTGKMLLP KLGVGSRECGNVKEVGIRAIE EFGPYKINGDKEIMRRMDLLQ GFDAQHRMKLPAQPTSLATKS ARRVRYPLFCPSIFNGFEEFIFH RFLAEQALEFFNLLHGGSKFRG RNNLFSGGDSRRKNQRSTRHC HHPSPKIYSASAKEPWVLTNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGLRHSRTSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEETVP NNKITVVGVGQVGMACAISILG KSRAHEHTTAGAPYTPRQQT QCNMMSLADELALVDVLEDKL KGEMMDLQHGSLFLQTPKIVA DKDYSVTANSKIVVVTAGVRQ QEGESRLNLVQRNVNVFKFIIP QIVKYSPCDIIVVSNPRDILTY GTWKLGLPKHRVIGSGCNLDS
19200	49568	A	19309	435	777	RWLATHYLTVKLSLLPNLAVT CQPKREQNTSNSTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP CRLVDWADIPEQKQLMVLIRAS VALHGRSVTLYEKAFFAFRAM FKRSS

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19201	49569	A	19310	69	1270	LCLLRHDCYRGLQSLLLILCKM ATLKEKLIAPVAENDEAIVPNN KITVVGVGQVGMCAISIPGK VSWPDELAALVGCWFEDKLKG GNDGSFQHGEIIFQTP*NCGQ DKGLFL*PANS*RFVSW*LGS PVQPRRGIRLQSWVPEKWL VFQIPLFLKIVQVQSLICIIIGFN PQLDILTYVTWETKVGLPKHR VVGSGCNLDSARFRYLMAEK TWHFIPSSCHGWNFGGNGMDS SVIAVWNGVNVAGVSLQELIN PENGNI.TNDKLIWKEGA*IW WLKSAVEVILKLGYPQLGAI WI*VLAESYWNPMKKSYPR HPGCPTNG*RGMYGHWRM SPSLEPSLCIPQCPRLNPAVIQ RSLKDDEVASASRKSARIPLWD NPEWTLKRPLT
19202	49570	A	19311	52	406	HVEAAGSR*CAAPAGALLRFLG TPSFEDVSIPEKPKLRFIERAPLV PKVRRPEKTLSDIRGPSTEATEF TEGNFAILALGGGYLHWGHFE MMRLTINRSMDPKNMFIAWR VPAPFAH
19203	49571	A	19312	1	783	
19204	49572	A	19313	15	397	LLAEWTMGHTPVGGFRGAISL DAAP*EQGTMLVSWLCDLFLV LRILVGKTVSSKNIFIERVNGDG KHENIPMSSPPRSWFPSEKRFTH RRKTSSHLQNLVLGAVSLRQH WRGGVPRNLTRAPAGAAH
19205	49573	B	19314	127	181	
19206	49574	A	19315	242	1067	CAAPCGCPQIPGALLPASAGV KTLIPVPSFEDVSIPEKPKA*DL LERAPTCQAQ*RRP*KFKVTR GP*SH*KPTIEFYRKAIFAILGIGV VGYLHWGHF*K*WRLTIQPAL WTPRTWFAIWRVPAPFKPITRK SVGASHGGEAKGAI*HYLTPV KAGRLVVMEMGRCEFARS VSLTQVALRSCPFASKRL*ACG TPREGCEQDQEERERQQRTPW TI*AE*PTAQHGWAYGKVP EPHMTLTPQGEILGARFYM PKTCVVSVGDILYIGY
19207	49575	A	19316	1	520	

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19208	49576	A	19317	104	763	SAAADGPDRLRRPPANLRARP VLAPASATASARRACSPHPQT MSESKSCPEYASFFAVMGASA AMVFSALGAAYGTAKSGTGI AAMSVMRPEQIMKSIIPVVM/A GIIAMLRPGWVAVLIANSND ISLYKSLFLQLGAGLSVGLSGLA QPAFAIGFVGIDAGVRGTAMH AADIFRGA*FLILIFAIVLRVY GLIVALLILFHKVDLFRHQPT
19209	49577	A	19321	36	164	
19210	49578	A	19322	190	743	NDRGKEGSLSTVPSIRNTDSGH LAPRRKPQLKPSLNTSPFKAR KIHKGHEVASAGGNPPAIP KVPP*FNIHRRGPPWPDHVRFG SLFNTLFLNWCCLGVSLAFRL LP*KSRDGTGKMGLDVEPGAQ ALCLPPKCLNTWALILGILMT IGFILLLVFGSVDSLTLWFQIIQ GKTGGY
19211	49579	A	19323	2	257	
19212	49580	A	19324	1	1227	MGRARKSGLGQRSRPTASRSEA AVQPGVRKARGAGNWRVGLQ TGEAAPSPHRDLRDTDPDRPW ARTHRMTTTLVSATIFDLSEVL CKGNKMLNYSAPSAGGCLDR KAVGTPAGGGFRRHSVTLPS KFHQNLSSLKGEAPALSSR DSRFRDRSFSEGGERLLPTQKQ PGGGQVNSSRYKTELCPFE NGACKYGDCKQFAHGIHELRR LTLTKD*TELCRTFHTIGFCPY GPRCHFIIHNAEERLALAGARDL SADRPLQHSFSFAGFPAAAAAT AAATGLLDSPSTITPPILSADD LLGSPTLPDGTNNPFAFSSQELA SLFAPSMGLPGGGSPTTLFRP MSESPHMFDSPPSPQDLSLQEQ GYLSSSSSSHSGLSDPTLDSRR LPISRLSISDD
19213	49581	A	19325	204	456	
19214	49582	A	19326	1	323	IVEYHGPVDSISCTGMATICN MGAIEGATTSVFPYNHRMKKY LSKTGREDIANLADEFKVDHLVP DPGCHYDQIEINLSEMV**PDM LPAPRLAHGVTVVVVGGFLK
19215	49583	A	19327	2	131	
19216	49584	C	19328	2	283	
19217	49585	A	19329	1	206	
19218	49586	B	19330	217	435	

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19219	49587	A	19331	1	565	PWE*SPKGIGVSCGPLSGWS/SPKD/VILKVQ/GILRFKGGTVQIVESTGLG*TPFSCTGMRQFCNMGAEIGATTSVFPYNHRMKKYLSTGTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSKLPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVDALACQSLAFGAADVQCGCEEHGAWSQMAWA
19220	49588	A	19332	117	2603	GQHCLLPWGVFPFLKKALGVRRQ*HVAVSLCQRAR/VAMSHFEPNEYIHYDLLEKNINIVRKLNRPL/TLSEKIVYGHLDPPASQIE RGKSYLRLRP/DRVAMQDATAQ/MAMLQFISSGLSKVAVP/STIHCDHLK/EPQVGGEKDL/RRAKDINQEVYNFLATAGAKYGVGFWKPGSGIHHQI/LENYCVPWLSF*LGPDFHTFNGGGGLGG/ICIGSGW/PNAWEWNGLGIPWE/LKCPAQVIGVKLTGSLGWSSPKDVILKVA GILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYNHRMKKYLSTGTGRE/DIANLA/DEFKVHLV/PDPG/CHYEPTELK/INSEL/KPHIQWGPFTPDRGSPCWQEVGKVGREGKGWPL/DIRGGS*L/VACTNFKLWKIWRSA/VAKQALAHGLKCKSQFTITPGFPRQ/IRATFERDGYAQILRDLGGIVLANACGPCIGQWD/RKD/IKMGEKNT/IVTSYNRNFTRGRNDPNPETHAFVTSPEIVTALAIAAGTLK/INPETD*PDGARMGKKFQAWRFPD/AD*VFPKG EF*PRGRD TYQHPPK/DSSG/QH VGT*APRSQRLQLLDPFDKWDGKDLEDLQILIKVKGKCTTDHISAA GPWLK/FRGHLDNIPN/NHLLIGAINIENGKANSVGNVAVTQEF GPAP*QLARIYYQETLASRLGW
19221	49589	B	19333	1	1311	

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19222	49590	A	19334	2	1390	PRVRPRVRARPTKMSALGSLSL PSVLWGQLFAVDSGNDVTDIA DD/GCPKPPEIAHGYV/EHSVRY QCKNYYKLRTEGDGVYTL/NTI EKQWIKLRLFGD/KLP*IVEADD GCPKPPEIAHGYV/EHSVRYQCK NYYKLRTEGDGVYTLNNEKQ WINKAVGDKLPECEAVCGVKPK NPANPVQRDPGVGHLDQCORS FFPWARKLDGFPFH*SSTHQGP RWIQLNQWLA*PRLKNLLSLN HSENCQQRKDICYF*HFMWG KKQLVGD*GRLFLQ*LTPRVD IGL/KLQTEGCSC*LRRVMPICL PSKGLWQK*GRVGLCFLAGGR NAQF*NLTHLKVCPCCPVA*P KTQCHKAIYERPSNKSPRKRKN TRKKPL*GVQAPILK*NTFFLC AMS*RYPKERHPAYG/QNAGAS ALCPFHRPLEEDTPGMPTGIU/S FDKS/CAVA/EYGVYV/KVTSIQ/ DWVQKTIA
19223	49591	A	19335	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSVVSIMYLVVLVA VQVHAWSLYYSKLLDSWVH QHTGEEA
19224	49592	A	19336	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGPSFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSVVSIMYLVVLVA VQVHAWSLYYSKLLDSWVH QHTGEEA

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19225	49593	A	19337	71	1265	RCSKSLRMSTFFSDTAWICLAV PTVLCRTVFCTYKKSSQQLWS WMVCLAGLCAVCLLILSPFWG LILFSESCFLMHTYLSGQELLPV DQKAVLPTGGDCGLDHALSKY LDELGFTVFAGVLNENGPAAEE LRRTCSRLSVLQMDITKPVQIK DAYSKVAAMLHDRGLWAAIN NAGVLGFPITDGEILLMTDYQR CMVVNFFGTVEVTKTFLPLLR* SKGRLVNVTSMGGGAPMERLA SYGSSKAAVTMFSSVMRLLSK WGKVASIQP/GEGFLTNIAGTS DKWIEKL/EKDILGPPPLRVQE DYGQDYILAQRNELLINSLAS KDFSPVLR/DIQQAILAKSPFAY YTPGKGAYLWICLAHYLPIGIY DYFAKRHFQGDKPMPRALRMP NYKKKAT
19226	49594	A	19338	1	861	
19227	49595	A	19339	248	930	DVHQLGNMAVIHSHLWEGLQE KFLKGEPKVLGVVQILTALMSL SMGITMMCMASNTYGYK*PLFP CISGYTIWGSVMFIISGSLIAAG I*NTKGLVRGSLGMNITSSVLA ASGILINTFSLAFYYSITPYCNY YGGPPN*LSMGTMSHLKGWV MGMLVLLSVLEFCIAVSLSAFG M*SALLVPPGGGCVNSAITFFT WAETASSTILNEGLRGTRQRFNR QMLPEIYA
19228	49596	A	19340	167	1164	RNRLPSSALAGVAPSHREPRV RTISQTDRRKDA/PDPARRDRVE LAPAYTSPPRCSANVGISTRRL RALCPARVRAPRLRPPASSPLG SEEQRRKVPAARMRPRAGAG RSTLPWLPAT/WPGLPSLPYL* ICGGNNSY*R*RKGEQFE*RNSS *DYRYLPSSPASPNVREERQFNE NGPDDKEKDRPERPSPLDTSPL LDPPAVSDIAGKMSDEFSLADA LPEHSPAKTSASYPDHMLVPTD PAAAGPLGPWGSMSGWPVPG MGGQYPTPNMPYPSGPYPVPP PPQASGAAPPVPGWTVPLGAW GPPAPYPAPTGSYPTTGLYPTPS NPF

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19229	49597	A	19341	2	716	SDPSLLDPTAVSDIAGKMSDE FSLADALPEHSPAKTSAVSNTK PGQPQQGWPGSNPNWNNPSASS VPSGLPPSATPSTVPFGPAPTGM YPSVPPTGPPGPPAPFPSPGSPSC PPPGGPYPAPTVPGPGTGPYPYPT PNMPPELPRPYGAPTDPAAG PLGPWGSMSGWPAPGMGGQ YPTPNMPYPSGPYPAPPPQAP GAST/ILFHGAPPPGAWGPPAP YPAPTGSYPPTGTL*FPGAW GPPAPYAPTGSYPPTGTL
19230	49598	B	19342	54	178	
19231	49599	A	19343	3	249	RHKGSPSPHQTEPSWLHPVDP ALGPQVELPASLVLCARTPOPL GGR*DWV/PGTPAGPQESRAAP VPASAPPSTPRGRGGRI
19232	49600	A	19344	2	504	WAPVRPEPFRRAPPPAPQRPVP STTQGLRSAGA/PAGLAGSYP CSPGYVNAIDSLYLATFMGIR VKRPPNR/PLCEQ*SFYHLGAGE *PGKSRVPIQFQSP/GDPTVRV VPRR*SVPTSCATPRSWCCSD TPGHPLGSPEQLPQPGAAELP GGVVRSTPPCPAL
19233	49601	A	19345	3	335	
19234	49602	A	19346	2	447	CACTPQPLGGRWDWAPWSRG RRSSGRLRLHRNRRRGKAQA WRAAVPRPAPREGS*GGRPAA PSAGPPSRPPGTAPGQAPRAA PVPAVRLPHLPAS*GSLRPS AQKGAPTVQ/PVG*RAPQVPPK WEPQRRRRERARAVRTA
19235	49603	A	19347	108	729	QHAGSPQSPRLSAPPLPLGLPL WWHLRSPASPLHCGSPFLGW RLEPTPSACREVWREHKEWEP G/PACGACGPAGVPGGRG/PWW APHSEHPASPAGPG/PMGNLAP GPVAAEGLVSPAPVPAHRRCAR FLAGP*L/PFPRGRAWDLQAPAM PEPPTVPWAPV/PAEP*RAPPP APQRPVPSPPKGAQDWAAPP AAPVRDPLGEASWAPE

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19236	49604	A	19348	1	816	MWESLTLSRDNLNGFDQNADS GIDNKVQVEVASDEDEELVGN WNKERENPFSGEKLKPAEICIS YKEPNANHQDNGENVARACQ RPLQHPPLPSQAQRPRRKQRFPG PGSGPTWDLVPCIPGAP/RLD*K GPRKPKSWYSEGQRYESPSFGIP LGSDLFPTNALLKPYKLPPSR PRDYCGRAAFPRGRVRDLQPA MPEPTPPWAPVRPEPPR*APPP AP/PAPSPIDHPRAEECEHTAQD WQAAPPAAPVRDPLGEASWAP ESGGDVESLYV
19237	49605	B	19349	4	669	
19238	49606	B	19350	1	930	
19239	49607	A	19351	170	444	
19240	49608	B	19352	1	1122	
19241	49609	A	19353	1628	3591	KGLRLKLCFSVQLRFSIRNFRLG ILTYWKKEFEIVGWPRLEPTPL ACREVVRREREREPLRAALA GQLEFRVGVGLAGPSLGAAGQ PCWPRVIRDLAPGPVAAEGVLG PPAVPAHRRACAGLTP*LP SRG AGLGTCSPPCLSLPPTWAPVRP KPPQRAAPPAP/PAPSPIDHPRAE ECERRAHDWQTAPPAALVPDP LGEASWAPESGISDEYITPMFSF YKSIGELKMTQEEYALLTAIVIL SPA WATERHPVFVKRERKKPSN CLEGVKAAELAVGLPWNLG KFHTGDGTSAGLQGIAPNSVGP GQPAPEWMWGWERLLTDQDK TQGSASFCTATFQDAQQLLO ARFIHLSGLWEQQDGLWLSNW LSLKGQIGGPALTEPLRLSVNR GTWPPKLRDARRRSAGRADRR APTGRVLPGSPGAGPQTTPPPY DWSLRNRRRPAATDPEAQAAA AAAAGVQGRVGAQIEPSCRPA GRSDPPAPGPEAEVCWVSRRLRE PVRSFAFWLRQSRALIGSWGK QGDVAPFTCPPNAERGATGV RGGWGCWCGRAQLGRRDPAA TRPALNPERYQSPKSMQGLERP HVRNWGIELETLRDAFRPQPSV WRTARGEAGKRKGRLECLGS QRKVLEGVLLYAVTRGSPFNLF
19242	49610	B	19354	1	412	

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19243	49611	A	19355	951	1453	FQTQEPSSLHLVDPTGLQVEL PASPVPACAIQPLGGRWDVVP WSRGWCSSGRLGPHRSPWSGW EAQAWQAAGPEPCPMGRQVRP GEKSSAVPVGQPG/SGHSVHPP QPLARVLSPLPGASRAGRLLR VWGPPSPRPPGTPAGQARHTA PVPARASPTTPCKLR
19244	49612	A	19356	111	658	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPA/PAPSPID HPRAEECERTARDWQAAPPAA LVRDPLGEASWAPESGGIPTPS GPGVAGSGSTHTHALTHACTH AHTRAEPLRLPPPRPLPPPLSP /PPAPLLPSKPSLSTDRISKS RQKVPFGPRDPEPRGVRA GSW NRTTH
19245	49613	B	19357	1	552	
19246	49614	A	19358	1299	1813	AHFPRAGTGAACSACWPAGVP GGRGLGGPRTRSSRPCWPRAK GDLAPGPA AEGVLGPAAVPA HRRCARFLAGP*LPYHGAGLGT CSPPCLSLPPT/SGSCAPEPPRR APPPAPRHPVPTTQGPWETC LLSIYGNAMNDERAWSLEGFW VLKPSDSWMTLSERTISFF
19247	49615	A	19359	380	905	WIPHWGCRWSCLPVLRRALAF LSPWVVDGTGRRGVGSGAGRG GSGRTGAHGVGGRLRHGGLQV PSPAPREGS*GPARNRAQPGGP ALLGDSVHPPQPLAQVLSPP/FP GPAGLAGCSECRGPPSPRPGTP AGPQAPHAAPVPARASPTPPL VHLTNDVLRVKKWAFFFTLH
19248	49616	A	19360	1	1052	MGLAERCPLNHLTLTVSSVKCS FLLAHILSVAGACYGLRGAPH TFPGITCPGCSQENNPIKKWAE DLNRHLIQEDTQMANKHLKDA PHRYIIRLQVKPTMRYPCHAPT GVAHIQSTNTPNAGEDVEHQEL TFIADGSPVTTTRGHMDLVQTS L SRTLGVIRSTGSWSACAEFSHY CLAKRLQLLKHGNGNSNSGG NAECITRHQCKPLTGILSFILAL NKVKNTRPFDRCHSEGSEKEPS FCVTCPRRPEVNPQSPYMPQPG KSSTHLSVVQLRALEVGEPQAF PPVE/PEGFAGLRHPLWL*V*GQ GSG/SSPCLSLPPTPWAPVWP EPPRRAPPAQRPVPRPKG

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19249	49617	A	19361	417	1092	KWCSKRTAFSFLQGGVEGEA RAGTRAACGACGPAGVAGRRG LGGPPHSGQPASGPG/PVRDL APGPVAAEGVLGPPAVP/APPA LCSIS/PPGCSCLPAG/PRLRTCSP PCLSLPPPPWAPVRPKPPR*ATP PAPRRPVPST/NPRAEECGRTAR DWQAAPPAAPVRDPLGEASWA PESGGDVENLYVQLRDCKYTN QHPVSSSGFVNAPISTLYLVNL VGTWIRIFMSS
19250	49618	B	19362	817	1596	
19251	49619	A	19363	350	644	
19252	49620	A	19364	60	1362	SRVEPRVRSASQDSRSRDNGPD GMEPEGVIESNWNEIADS\FDD MNLSESILRGIIAYGFEKPSAI QQRAILPCIKGYDVIAVQPSGT\ GKTATFAISILQ/QIELDLK\ATQ GLGS*APT/RENLAQQ/QKVVM ALGDYMGVASICHACIRGAPTC VAEVQKL/QMEAPHIIVGYPLG RVFDMLYRRLYSKPYIKMFV LDEA\DEM\LSRGFGQIYGHQ KAQAAPPRVLLSATMPFD/VL EVTKKFMRGPH/IRILVRKEELT L\EGIRQ\FYINVEREEWRLDTL CDLYETPDPSQASHLPSTTRR\ KVDWPHPRRMHALRFPWESAQ HEDMAQKERR/DVIMKEFRLAS SRVLITTDLLA/RGIDV/QQVSL SHQLNY/SFPTTRENY\IHR\IGR GGRFG/RKGVPINMLTE/EKTKR NLEDIETFYNTS\EEMPLNVA
19253	49621	A	19365	911	1278	NCGIVISKHLVFTLA*MMCHFL ASLQRKGILKRSASV*AHSH/DP SFHMKIYNAGWGHRT*HPAGG FAGPPPWGSVWGLAARTRENA PRPALPLPRPAPSGLAHGADGD SNTKIQSRDNRKG
19254	49622	A	19366	26	743	ETSADMAPSVPAAE/PEYPKGIR AVLLGPPGAGKGTQAPRLAEN FCVCHLATGDMRLAMVASGSE LGKKLKATMDAGKLVSDMV VELIEKNLETPLCNGFLLDGFP RTVRHAEMLDDLMEKRKEKL\ DSVDLNFSDLLIRITGRLIH PKSGRSYHEEFNPPKEPMKDDI TGEPLIRSDNEKALKIRLQA YHTQTTPLEIYYRKRGIHSAIDA SQTPDVVFASILAFAFSKATS

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19255	49623	A	19367	40	1002	VASGTRTELQDRFRDTS GDM FPSVP*EPEYTKGIRTVLLWPP GAGKGTQ/SGTEV*MACSLGY IASNLQSLHLNDSKAPALSAIY CPRHPNWAENFCVCHLTDGDM WRAMVASG/SSELGKKLEGNL WDGWGNWVE*WKWVSWSSF GEGILENPLVAKNGFLLDGFPS GPVKARQK/SPMDLMGEGGKE KLDFC*FEFSIP/DSL/IRRNHKE GLIPPPKKWAGSYPRREFQPLP KEPP*KNMITGGNPLIRRSR**M KRPLKIRPASPTHQTITPLIEY YRKRGIHSTIDASQTPDVVFASI LAAFSKATCKDLVMEI
19256	49624	A	19368	793	1152	SGRRRRGCGGQSVKQAPALT P GPPAPVFIPEAPAACAPHHPGQ GNRKRCNFPVCP/TPKTASSCP/ EPLPPPSLQR*PCPCHPWHHLE FSFLDEVTFNFNKTFRKLVSSK MLPLKVGH
19257	49625	A	19369	1	873	
19258	49626	B	19371	1	322	
19259	49627	B	19372	64	2250	
19260	49628	A	19373	20	368	CEARGSGHGGRAERAGVCGG PAELLPKGSKEEQRDYVFYLAV GNYRLKEYEKALKYVRGLLQT EPQNNQAKELERLIDKAMKKD GLVGM/AVGGM/ALGVAGLA GLIGLAVSKSKS
19261	49629	A	19374	3	492	
19262	49630	A	19375	62	570	GSRGQWPSEAVLNELVSVDL LKFEKKFQSEKAAGSVSKSTQF EYAWCL/VRSKYNDD/IRKGIVL L/EELL/PKGSKEE/QRGFTSFYL ARGGGTTRLQGITEKALKLRS GLLAAQEPQEQPRPKETGNGLI DKA/L*KKDGLRGAWPIVGGM ALGVLAGTRCSSDFAVFQ

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19263	49631	A	19376	1	944	MACHLQAGSPGNI.VVVFQSKP EGLRTREPMSVPVQVKGST RKLMMSEDLPLTGNWHELRS RTAKNGILQVDKQKIVEGMAE LQQVVGKNMDSGVGPVVHGG GLTRTGYLLNPESLQQAFAFR QIQGCDEKLACVGGKQLGTWP LSESPSLTRLRYCRRQLTQGSIR MSLNAGVPGQTAPDQRSGEG VAAPAGPGEEVGREEGEGAAA GKRQCPCQQGSLCVDTSRPLP KSQAQIPSSSRSSPSSSEQRGQ LPSVREHVEGGQGEERAPHCD GGGRVLLASGLAWLTGTEINMD LASSPKDDWGVAVPSRGGERPS TFTLVLPSPIVRRRACSGQPISP GGGQETHGADTSHLTNP*ICLL SKAFCCRDGSLK*PVLVRPPPC \PQALPQSPSCYLLLAVALPFPP LSSAYPPVRFHSLLEIHEARAS
19264	49632	A	19377	1177	1603	WVSSFSSSFSSFPFPPPPPPPP PPSFLPPPPPP/PI*DRARRCQ TSIPLNKLNNKLLLLLSRPD DREKFTPOQSARQREPIKGT SRRGEGPICPTLSLYFLHVFLCF SCLSSQIHIIYILRLSTVLVIKNS
19265	49633	A	19378	1	896	FPFSLPPKMPKGGKAKGKKV APAPAFVRKQDAQE*WLNPLF KKRP*DFRIGQDIQPKRPPPL L*KWPR\YIRLQ\QRAILYK\RL KVPsAITPVSPRALDPANQLLS LLK\AHKYRPRDKAQRSKQ\LLA \RAEKAA\GKGRPNQRDPPVL RARS*HPSPTLVEEQEKL S WVVI\HVDV\SELGLSFLA\AL CRKNGGSPYCIJGKGQDLGR\LV HRKDLAPLVAFTQ\VN\SED KRRFWLKLVGSYQGPNNDRY RYDEIRRHGGNVLPKSVARI AKLEKAKAKELATKL
19266	49634	A	19379	3	491	AKAALDWEEGHQ*QDRL*SRN SQLGICGGLRGFRGDRASVFS R*AEKESVRQL*ARVPGALGVA ARANKHQRRWREGDSTQTATN TVDRRATRGRPMEWRA TRVAD EEDGDRRRGDNRPQARTFRPRT SVRRAAGTNNSEGRPTNAGT NNGRGVDIYTVN

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19267	49635	A	19380	1	1501	MRRSTPGVLPAAVGGARVRRRA VGLSGTGAEAGRAGAMVEKEE AGGGISEEEAAQYDRQIRLWGL EAQKRCHRMKEALSTAPFTDK ETHPKVSLAQVTRSSASVMVY GAFEVIGQRQSSAAKPRRSQSE SLGPEFQGLWEWLPASQHIMRS LKKQDGMGGQYRVSLWEVVG QLIFLEEKVTPEDPGAQFLIRT GSVGRNRAEASLERAQNFNP MV/DMLKVDTEDEIKKPESFFT QFDAVCLTCCSRDVIVKIDQIC HKNSIKFFTGDVFGYHYGTYFA NLGEHEFVEEKTVAKVVSQGV EDGPDTKRAKLDSEETTMVKN KVFFCPVKFVALDGVWLDACDE MQMAALKRTTSDYILLQVLLK F/RVTDKGRDPSSDTYEEDSEL LLQIGNDVLDSLGISPDLLPEDF VRYCFSEMAPVCAVVGILAQ EIVKALSSAGTLP/PTTNFFFR WA*KGEWGLWECLGPQVNSG FGQPQRCLQHAHLYSLFPFFM
19268	49636	A	19381	2	411	PGTSQGVFSPHRLGGAVRSPCP PPQDSRQASAGGAESQLKQRG FPGE*GCRSPVSCA WPQNRMG* GPQHREAGAWSGE*KTIWLK QERCNRPLGLLVTAEALAPAPRP DGMAPGCGGIRCTPGRPRLLH SGPPSP
19269	49637	A	19382	165	309	
19270	49638	A	19383	1	825	LATQPEGAGRVPSPHQPQGGPEA ALQDLRLTLMGSSRLHSGKESIG HNSSAGSSSQPHHPRRKTAL EKGGKQPHRMLPSPGLGSSPE PANAGSPDTWLCP/AAARVL* NPVKPRKGRSEPRSGWASQLPG GDSRLPLRPGTSQGVFSP/APAG *AGKLVGLVLSLSLKQRGFPE *GCRSPVSCA WPQNRMGCRITSP GPSPTSPTAAGE*GSRPRRRKPG RVQGLQRDGP/TLTQEDALTA KRCRLPVTSPQTPETSTGAAA PGSQPVGAPPSR
19271	49639	A	19384	1	378	

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19272	49640	A	19385	381	1653	QRPRTGFTMGRRKSLYLIVGIL IAYYIYTPDPNVPEPWRMMWI NAHLKTIQNLATFVELLGLHHF MDSFKVVGSPDEVPPISDENV TVTETKFNNILVRVYVPKIRKS *STKEGGLFYIPCGGWRRGSYS LIVYDLPSSWTVEIRPGSSLVSN HLRLAT*FHFPLQLGELYDAL R*FLRKKVLAKYGCEP*GESGIS GDSAGRG*LSAVTQQLADDP VDVQDPNFKIQS*HYPALSAWWM *VLPSYQGGKFKFSYFYSKSLQC RFWSEYFTTDRSLEKAMLSRQ HVPVVESSHLFKFINWSSLLP*E GLLKGHVYNNPNYGSSELAK KYPGLDVRAAPLLADDNKLRL GLPLTYVITCQYDLLRDDGLM YVTRLRNTGVSG*LNNHVEG GFHGAFSFLGLKISHRLNQYIE
19273	49641	A	19386	3	667	DAWADAWVPVSSEVAYLFGG CHTCGGLPVAHPMMPRGRSR TSRMAPPASRAPQMRAPRA QVGQPPAAAPPSAVGSSAAAP RQPLGLMAQMATTAAAGVAVGS AVGHITLGHATGAFSGRK*LPE PARP*HFFNQEASG/TPPAQH SKQQRHPLHQPCPYEIQTVFWE FCPGRTRDQAL/CEGFNEVLK Q/CRLANGFGPNEEVSTFGRD WKFSNNLS
19274	49642	A	19387	81	1257	RHQSDQTVPRLSRPHVQSQKSS MAAAKPNLNLVVHGPGLDLR LENYPIPEPGPNEVLLRMHVS VIGCSDVHYWEYLS/RFGNFIVK KPMVLGHEASGTVIEKVSSVK AP*NQGDRAVIEPGCSPEEN*W NSCKMGRYNLSPSIFFCATPPD DGNLCRFYKHNAAFICYKLPDN VTFEEGALIEPLSVGIHACRRGG VTLG/HKVLVCGSWANRGWVT LLVAKAMGAAQVVVTDLSATR LSKAKEIGADVLVQISKESPOEI ARKVEGLLGCKPEVTIECTGAE ASIQAGIYATRSGLTLVLVGL GSEMTTVPLLHAAIREVDIKG VFRY/CNTWASGGFSLMCLVPKS VNVK/PLVTHRVSSWRKVLEA FETFKKGLGLKIMLKCDPSDQN
19275	49643	A	19388	2	431	

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19276	49644	A	19389	2	326	ARGSTRLMESRVQHL*CTRKEL TPEVLQEWLDELEEMMLVVH MPRFRIEDGFSLKELQDMDGLV DLFSPEKSKLPGIVAEGRDDL VSDAFHKAFLEVNEEGSEAAAS
19277	49645	A	19390	2	368	
19278	49646	A	19391	1	2123	MAQFSIVGMCLGLFNQSPDTGDS GVQLFVIMNQVMAANLAETHA ALCPTLSSGTSARFRGNQFSG GLPQITLSPLAQPCGRLAAMYS NVIGTVTSGKSLPSTPLVPLLL SGFAPLFLKGLQNWQTQTQEG KSPSAAPASSQPQACPTDHYRE SALGACLSLPGEDGKIQKVYLL SLLLIGFWDCVTCGSPVDICT AKPRDIPMNPNCIYRSPEKKAT EDEGSEQKIPEATNRRVWELSK ANSRFATTFYQHLADSKNDND NIFLSPLSISTAFAMTKLGACND TLQQLMEVFKFDTISEKTSQDIH FFFAKLNCLYRKANKSSKLVS ANRLFGDKSLTFNETYQDISEL VYGAKLQPLDFKENAEQSRRAI NKWVSNKTEGRITDVIPSEAIN LTVLVLVNTIYFKVLRMALERP QGLPLALQLTPFFKWRDRSPE RANGLPKATQGLWKSFKSPEN TRKELFYKADGESCSASMMYQ EGKFRYRRVAEGTQVLELPFKG DDITMVLILPKPEKSLAKVEKE LTPEVLQEWLDELEEMMLVVH MPRFRIEDGFSILKEQLQDMDGL VDLFSPEKSKLPGIVAEGRDDL YVSDAFHKAFLEVNEEGSEAA ASTAVVIAGRS LNPNRVTFKAN RPFLVFIREVPLNTIIFMGRVAN PCVNLSEALAVLVVNLTTLMK RTHGESLDFMERKRRPAESILL

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19279	49647	A	19392	9	1630	PALCPITLSSGTSARFRGKNQFS GGLPQITLSPLAQPCGRLAAMY SNVIGTVTSGKRKYVYLLSLLLD SFGDCVCTCHG\SPVDICTAKPRD IPMNPMICIYRSPEKKATEDEGS EQKIPEATNNRRVWELSKANF PLLLTTLFSTWADSKD*H*LTF FCSPLSIFQGFLWTKVVGACND TLQQLMEVFKADTISEKTF*SR SHFFFAKLNICRLYRKANKSSK LVSANRFLFGDKSLTFNETYQ\DI SELVYGAKLQAPGTSRENAEQ\ SRAAINKWVSNKTEGRIHRCS FPSGRPFNELTVLGGGFNTIYFQ GACWK\SKFSPENTRKELFYKA DGESCASASMDVTREGKFRYSG AWLEGT/QVLVVCPEFKGDDIT MVLILPKP*EGAWAKVEK\ELT PEVLA KSGWD*FWREMMVLV HMPRFRIEDGLQV*REQPAKN MGPLSDLFSRKSPTPPGIVA EG\RDDPPMSSDAIPIRHFLEVN EEGSEAAACKYPLL*LPGRS\LN NRVTFQGQQAFFVWFIREVPL NTIYLHGAELANPCV
19280	49648	A	19393	3	737	
19281	49649	A	19394	1	705	
19282	49650	A	19395	2	757	
19283	49651	A	19396	1	1764	
19284	49652	A	19397	1	710	MAWALLLLTLLTQDTGSWAQS ALTQPASVSGSPGQSITISCTGT NNDVGSYNLVS WYQQHPGKA PKIMIEYEVSKRPSGVSNRFSGSK SGNTASLTISGLQAEDADYYC CSYFTSSRPDI VVFGGGTKLTVL GQPKAAPSVTLFPPSSEELQAN KATLVCLISDFYPGAVTVAWK ADSSPVKAGVETTPPSKQSNK YAASSYLSLTPEQWKSHRSYS QVTHEGSTVEKTVAPAEC
19285	49653	A	19398	1	679	
19286	49654	A	19399	1	743	
19287	49655	A	19400	2	736	
19288	49656	A	19401	2	718	

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19289	49657	A	19402	1	711	MAWALLFLTLTQTGTGSAQAS ALTQPASVSGSPGQSITISCTGSS SDVGGYNYVSWYQQHPGKAP KLIHYEGSKRPSRVYDRFSGSM SANTASLTISGLQADDEADYYC CSFAGSSALRIFGSGTRVIVIGQ PKANPTVTLFPPSSEELQANKA TLVCLISDFYPGAVTVAWKAD GSPVKAGVETTKPSKQSNKY AASSYLSLTPEQWKSHKSYSCQ VTHEGSTVEKTVAPTECS
19290	49658	A	19403	3	720	
19291	49659	B	19404	1	711	
19292	49660	A	19405	105	858	RRQDSGQSPAWPAGALLTLT HCAVPGSWAQSVLTQPPSASG TPGQRVTISCSGSSNIGINDVT WYQQVPGTAPKLLMYSDNHRP SGVPDRFSGSKSGVTSASLGPSV GLQSEDEADYYCGTWGLAA*M VFMSSAGTTTLTVTSQPKAAPS VTLFPPSSEELQANKATLVCLIS DFYPGAVTVAWKADSPVKAG WETTTSPSKSNKYAASSYLSL TPEQWKSHRSYSCQVTHEGST VEKTVAPTECS
19293	49661	B	19406	63	756	
19294	49662	A	19407	1	757	MAWTPLLLLFLSHCTGSLSQAV LTQPPSSLASPGTSASLTCTLRS DINVGSPIYWYQKPGSPQF LLRYKSDSDNQGGVPSRFSG SKDASANAGILLISGLQAEDAE DYCYSSYVGTNNFVLFGGGT KLTTRP*GQPKACPPRVTL/FPHP PSEEASKPKNA/TLVCLISDFLP GKP*QLPWKAA*QPPSLAGVET PPHPTRSNKYAASSYLSLT EQWKSHRSYSCQVTHEGSTVE KTVAPTECS
19295	49663	A	19408	1	224	YISLPAGVLSLACCTLYGISWQF DPCKYQVEYDAYKL*RLPLH TLTCSRPTDRNVRFRSPHSVRQ QSLGRCLA

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19296	49664	A	19409	235	955	ESTVQVSVFCHRVPARTSSQTA LPVLLGGLGFTVSGPLNLPEPSV IVNGELVGPQTCLHCGMEIYN GNAQDQF*VTELGAGP*EGP VTSYIVIEPTRIGDETARWITVG NCLHKTAVLAGTALLHPGLR CTLRFPFHISPAPLGVL\SLACC NL\YGIS\WQ\FEFAACK*QVEVR TPNKL SRLPLHTLLP PRVVLV RKDDLHRRKRLAHNPIGTG PPLV YCVK\KIYELYAVMIFK
19297	49665	A	19410	1	764	MRLGIGFACPWKGLADEFDLKI EKQRNQGRLLGFKLQHLVPFTE MEKMGGDRQKHRTAPRQAER RRSGRVSFQPLQPLDVTLLPG ATREGNCPRASRGRRPSPISHCQ ETQGPGRSDCTIRGVLSIPAA RPLRKSGGFPTVCEKRPEQGQQ PALGP/AGPAAVPAPAAASRTQW GSRPCGAGARRGYWRLLGL CNLISPLDPGSPGSGRWGSAGA LSRPADSCPPW\PRAGA*RRG AAAEAGNSPSRCGASRPAEEQS GAFAGPLPSSPSQ*RAPGAEV
19298	49666	A	19411	209	536	TRSSCVTLVC*LAMVSLRVAR HGVPGTMFGKRKRVEISAPSN F/EHRVHTGFDDQHEQKFTGLPR QWQSLIEE/SARRPKPLVDPACI TSIQPGAPKEVCSPRASGTRSR
19299	49667	A	19412	124	1983	
19300	49668	A	19413	424	1582	PPWAAVHGDRPHRVPGTMFGK RK/KRVEISAPSNFEHRVH/TGF DQHEQKFTGLPRQW/QSLIEES ARRPKPLVDP/ACITSIQPGAPK WGETGSWPFF/RHLP EG*HGPP PGCQREPQRVSHEQ/FRAALQL VVDPGDPRS/YLDNFIKIGEGST GIVCTPPSGKLVA VKKM/DLRK QQRRELLFNERPWQCP*HP/RR* EAQVPLPVLQALSV/LHAQGV HRDIKSDSIL/LTHD/GQVSKEVP RRKSLVGTPT/WMAPELISRLP YGPVSPGWLGCPAVDSVRCH FQLQRWREMGPSLGS HCQNGA LDKEEGQRPSHTGSLQWGS LG VERTLRVNMVECVHACNSFY L VNKLFQKQDSTQEASVTMVPDP DKDGNRASQKRKAHSQGARR

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19301	49669	A	19414	488	707	TCGEGLSWTRPLPTASSLQVH* SLSAGERPYLCDYPDCGKAFVQ SGQLKTHQRLHTGEKPFVCSN GVNLVF
19302	49670	A	19415	16	454	GPAGRCPADCSEEEKGPSA/GD SGRPPSCT*PWKGLPVMAILPG EAPVPGPGWPEPDAGG/PLWR WGSPPCAAALHRP/SGTTPPGR ALSGPGLERAKQRSRVSPAPR AAPHGHPHCLPIPA GPRPAKD HPAYGPPASCHHHLAAS
19303	49671	A	19416	166	1191	TAGSLVLAARGT*GPPPRARK* GPAGRCPADCSEEEKGPSAETP GTTTPGRALSGPGLERAKQRSP RVSPAPRAAPHGHPTHCLPIPA GPRPAKDHP/PTHQKPPPRTEGS TGGHCCGPP/IFLIPNTSMLTVYP SGPVMPAGFTLSPSDTRPSLLN GQEVLRKMNGAVQYLSLCDYII PTCQCLATTVLCVSMSLTVFA VSYMVELLLLQNAQVHQLVLQ NWMLKALPPALQDPHPVPPRV PRAARTRLPVAV

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19304	49672	A	19417	1	2481	MRSGDLKFGKSAAWPSGQKEK LVFRGKIEEGLEYLHKKKPSAN SQDNGKEASKAFHGPLQQPLLS QALGPDREEWFFGQAPWPHCC VHPQDTAGCIPVVPAPAMAQR CTGTAWVTASEVAPSLDCFHIV LSQQVYRIHRPTSSLHPQYGKA TRHTTTPAVSMRAAAGAEPCKA TGADWPKTLGAQPSHPCTMDV GQGFKKDDSGAALAPMAALM GWAGIECLWLFHTEGVNCWP WDLGEKNLLGQPRGPAAVCS LRTLLPASQQQLLLRPWLKDA QVQLGSLLRVQAIGLGGFYIV LSQFIDPSKASYPPWVKNSRHS TAAQPMRAAAGAEHCKATGA ELPKALGAQSPSCVLDVGQGF KKNDFGAVGLNNWPAGFWNV MGTCKSRLCFVLLSGKSSFRV EVLTQCLDSHTLETYQFYNNREV AFEDVLESSQTGLVVQKPQTDNR LTKRGRGEATRNLRGLVPSMP RSLLPSTAQPTAWKCCQRGSPY THQDMALIPSPPTARCLSPAKEP KQEEVGEKSLPDPTLPLTDPR LTGSTEQAHAEGLAALMSALR VSHLQGRGGVTVLVDSQLGVI AVSSTQFNKGPSYRLLADVQN RLLPKYDSQKEAELRSWIKGFT GLSIRPDFQKGLKDGIIILCTLVN KLQPGSPVKINASV*NWH*LEN LSNFLKAMVSYGM/NPVDLFEA

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19305	49673	A	19418	1	1299	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCO RAPSPYTHQDTALIPSPARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSTQFNKGPSYR LLADVQNRLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNNMQVR VSLALAGAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSQGVFGLGRQIYEPKY QPGGPVAHGAPSAAGNCPGGE
19306	49674	A	19419	135	290	HREEESKSSVFLNPRGVQGTGV GDHRMILGRGRAVLSE*AAAG PRGGRHES
19307	49675	A	19420	92	1058	KGQYLNPNRKGKGPPEPPPEPPV PPASRSDMAQNLKDLAAGRLPA GPRGMGTALKLLLAGAVAY GVRESVFNVGGHRAFFNRI GGIVQDNLVLAEGFHFRIPIWF QYPH/IYDIRAKTSKKSPLQGS KDLQM/VNISPAKCWSRPAQE LS*ACTSRLGLGLTRER/CLPSI VNEVLK/AVVWAKFNCLTA*FT QRAFGYSLLDASGLTERAKGL SSLIL/DDVGSQSKLSFSPSYT AAVEAK/QVAQQEAQRAQFL VEKAKQEQRKINLQGRG*GR GLPKMLGEA/LSKNP.GYIKTSQ RFEPAPETILQRRIAHIHRNP
19308	49676	A	19421	3	861	LDDSWEPVHPGGCGDFICQWSEE SGLWSTA EVWRERRRGREPLC EGARGTARVPGRGPPHSGSQ PVPPAPGS*GA*PGPAAVEGVP GPPAVPPASAALEFSRGFSCLPR CHLVVTKIGKQEDDVSIKRNK PDYWPAPPEPVAGCEGSDQEQV KPNATLEKHFLTEGTGPRSPSC LSWPPSGPHAAADPAMVPETPE PDRPQLTKKFCEARVMVGTST NVLGQTLKPSRTGGTSSWVVF YLLTANRLPFVDVKRGGGPSSI KPRPHYDHRLLQDFKEQVIHFF

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19309	49677	A	19422	808	923	
19310	49678	A	19423	1	339	
19311	49679	A	19424	1	621	
19312	49680	A	19425	3	1836	MAAVEAAAEPTVVAAVGPK AKDEEEEEEPPLPCEA/LRWAP VLRGPAWATAFLEEATAEEP GAAPGSPDPSDRTLRRLRAER RRLDS/SLLALSSDFAQVQFRLR QVVRGAPAEQQRLLRELEDF LKG/IPDILGYEGPDSPASDEGD GLPGDRPRLRGEDQSEQEKQER LETQREKQKELILQLKTQLDDL ETFAYQEGSYDSLQSVVLERQ RVIIDELIKKLDMLNEDISSLS TEELRQRVDAAVAQIVNPARV KEQLVEQLKTQIRDLEMFNFIQ DEVGSLPTGGGHCECKAGGK TGNGCSRTGSSRTPPGNSRTKA EDVTKVRKTGLHLMRRALAVL QIFA VTRLVVPQARSLOPCGRG SRLTETTLPC*R/ELEASVDRVK QLALTAEPHDHITSANLQDLS L*GKDELTMARVKELTVAVRD LLAHGLYASSPGMSLGMATIA* LLPAFSSVPEAMHPRELFVKYY HAKNGRAYVESPARKLSQTF LPVTGGTVVTPKQSLTIAHVM LTEHDPFKRSADSELKALVCM ALNEHRLVCWMNLICKSGSLIE PHYQPWSYMAHTGFESALNLL SRLSSLKFSLPVDLAVRQLKNIK
19313	49681	A	19426	366	477	
19314	49682	A	19427	3	432	WNSRDAGYEFDCITSVHLYAI RTLWTVLDAIDQMWPVVRT WRLNERHYGGLTGLNKAETAA KHGEAQVKIWRRSYDVPPPPM EPDHPFYSNISKDRRYADLTED QLPSCESLKDITARALPFWNEEI VPQIEGKIRVLIA

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19315	49683	A	19428	1	890	MTRRRTPRGEHLSAFSSCVDK ISRCKSFGLELENSIQT LWAE EQSICLVAAGHLVSSSGMRNW CHARRHAAAYKQVLIRHGEVAW NLENRFGGWYDANLNPAGDEE AKRWEQALPDAGYEFDC/FRK TIRTLWTVPDAIDQMWPV\NV SKDRRYADLTEDQLPSCNSLKD TLARALPFWNEEIVPQIKEGW SDHCLGALVIPKDGCLNLDG VTTVSSLTPEERALEEPLNRP TN A/P*HQEG*CWESHQKPVFQT LGCLCEFSRGASRRKQARVVFR ERSNLCRSISGGEGF
19316	49684	A	19429	1	443	RALPFWNEEIIPIQIEGKRVLIA AHGNSSGAIVKHLEGLSEAIM VLNLPTGPIVYELDKNLKPIK MQFLGDEETVRKAMEAVAAL VCVLESALPALFHGSEMPGVPQ VYLSLISESCSCLTLPHGSSVH LSITVLNPFSSIV
19317	49685	A	19430	24	1039	AVLALLRGRGGLLRNLLIPV GAASPARROWPPYKLVLRHG ESAWNLENRFSGWYDADLSPA GHEEAKRGQALRDAGYEFDI CFTSVHLYAIRTLWTVLEMLA SEMWLVPVARTWRNLERHYWG S*PGLN*KQKLAAXHGLRPRLK IWRRSYD\VPPPPIMEPDHPPY SNISKDRRYADLTEDQLPSCIES LKDTIARALPFWNEEIVPQIKE GKRVLIAAHGNSLQGHCSRL EGLFVEAIGHSLNLPDLVPLSI ELDKNFESLSSPMQFLG\DEETV RKAMEAVACPGQGRSEGRRG RILSPGCTLPCPVFPSSPSHLA HVTLDHICKTS
19318	49686	A	19431	86	431	VYVSTMSLSCPAELAVRRQR WSSQFDHPGPGLPQRPV*EML LL*PTLDLQPVVPPAVAILSWKP SALTISSQIVTPGLKTRSFTRKT FMKIWNHRQKYQKTMVMFP RYPSL
19319	49687	A	19432	599	900	ATWLFSPTTTTCQLSKTLLVPL NFLEKQYLTLLFLEPTFSLFF RHTEDHLMRSGCLKVCSSPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19320	49688	A	19433	210	341	HFRKIFTVFQKLVEYNLLSGH STQSQHPGGTVLL*DLVCPVV

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19321	49689	A	19434	239	464	SPKGGPPNP SHGTFHTRPCEE TTKQALCEEHGCLFHLGAGGLS PKRESAKGDKGASVHVVCHI S*SPCS*LGP
19322	49690	B	19435	1	838	
19323	49691	C	19436	80	443	
19324	49692	A	19437	1	775	
19325	49693	A	19438	209	469	
19326	49694	A	19439	304	375	NVGE*SERHPCYD*TPREVCPPS P
19327	49695	A	19440	879	1188	
19328	49696	A	19441	615	917	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEPTFSLFF RHTEHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19329	49697	A	19442	674	1554	GQMASSSVSLQGVPAADPG WVTAGASLTRA WAAGVQGDG PGTESSISASSRRVLRGMTRTL LWACVLLWVCILLGLCPAVG PVSISVGPVSYCGPVPCGPYP VGPCPA VGPVPCCGPYPVS/ VPCCGPVSCCGPVSCCGAVSCC GPVVSISVGPVSC/VLGLCPAVG VVSIS*CGP*PAVGLCPAVGPV CGPYPS/VGPVPCCGPVSCCGPV SCCWACVLLGLCPAVGPVVSIS VGPVPCCGPVSCCGPVSCCGPV SIVVGPVSCCGPVSCCGPVSCC DHSSSHLLLTFTML
19330	49698	A	19443	4688	4824	

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19331	49699	A	19444	1	2274	MLKPLMGGAHRRRAAGARK WDGTAIIASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDKDAACQPSAG VHIVMPGYSPESMGLDPATS DGRVIFLPWQKMTIAGTTDTP TDVTHHIPSEEDINFILNEVRN YLSCDVEVRRGDVLAASWGR PLVTDPKSADTQSI SRNHVVDIS ESGLITAGGKWTYRSMAEDT INAAVKTHNLKAGPSRTVGLFL QGGKDWSP TLYIRLVQDYGLE SEVAQH LAATYGDKA FEVAKM ASVTGKRWPVIGVRLVSEFPYI EAEVKYGIKEYAC/DCCGYDFT SYSPGLS/EMSRQQRKPYPGLL N*/CGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVMQ DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQGRVSGSRLAI LMKTAEENLDRRVPVDRSCG GLYFCVRNWWVGLTDFKNE AADPSGVKLQTTFTSVTARKGS VDPKNSGAQLASPSGSRGTAA GGAACQSRALRLHSSALGWSM GLGA VEHGAVLIGEARAAQEP MEGVGSGMAGCRSQVLPRG
19332	49700	B	19445	439	1542	
19333	49701	A	19446	2	418	CLSLPPTPWAPVRPEPPRR/CAT PCSTAPSPIDHPRAEECERTVQD WRAAPPAAPVRDPLETGKIDQE IHKYNTPGFTGCLSRVQFNQIAP LKAALRQTNASAHVHIQGELV ESNCGASPLTSPMSSATDPWH LDHLD
19334	49702	A	19447	111	215	GTWLE*RKGPFWGEIKAS CRNLHLQGA KC
19335	49703	A	19448	740	959	DLYPHILSWQSRNAARKRKS* RGQRPIPAIS*GRISQKQQQNVN TSTPSHCRLPYECRPLLHGAQS HRPPKG
19336	49704	B	19449	260	508	

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19337	49705	A	19450	11	490	RLSTSPDGAQLASRSGSHTG AAGGAACQSRMTMRSHSALGW SMGLGAPLQRH*INSSGGSWLV DKESFPVPSALNFSPLGRKSSPC SKVLYMPNPVSHSMIPSGSERS MDTNGSCWYLTCSLSAPGRRD TRIRKVSQGRLLVLTLMISPSV GHSTA
19338	49706	A	19451	42	263	SGVSPMSFNTFTSAPAFNRSWT TCLCPK*HARCRGVQPKLDLLL PLQLMSAITSFLAMVNSNCSLTSS ALPFLA
19339	49707	A	19452	662	1564	GSRICSFQTRSGHPECPQCHWT RQNHSSIQPHKAAAYTKKTTIH PPNRSNSCSSIWCKLQKLYMCG P*GRSFNFSANLHQPQKGHSGE RPFENKNGRAILLKSHRVHTQE MPFPCSKVKGGLVSSGLFQH QAIHNEKPCRSAMYGDMFHTQ QGHFKCIDYGEAFSPKDTGQGH QIIHTGEKPYVCTECEKTCRST NLIQHKPKGLLSLLVLSPTGN ALFSTLSQLTQLLLTFDVRSDA TFFRKSGSRHQLWLALPEDAR ARVTSVSGTRRRDHGGARGVV CLIHGCVPTDRSSPDVW
19340	49708	A	19453	1	1167	MIREQKVKEVYICAGKKKSHM HLWHNGEKNRNLGRKDRKMT HEGWLIKIPHPGRKYKASGLH WEQMKHMGGRGKVHLEFTEM YVAGRRGEVKDEVLEPMSLTE VYIPTENDREVWRERRLRAPGL CAALEGQLEFRVGVGLAGSAL EAAGQPCWPRAGRARDLQFAM PEPPPASVGSAAARSLRSAAP CSTAPSPIGHRAEECERTAQD WQAAPPAAPVRDPLGEASWAP ESVMWPLDRSQSEEVSVSKRH MDATDKIKFPWLKEKRTIEFGE AAGYVCHRRYKDMEPHEKMG EAAKKVHVWQMRSRARDLQP AMPEPPTHSGSCAARASPT/T HHPLLHDAQSHRPPKGLRSAAGT WRGTGRQLHLQPQCQGIHWVKP AGLLSL
19341	49709	B	19454	118	559	

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19342	49710	A	19455	26	813	LSHYLACSLRLPSGSRIRSAWLI PSIMLLNYTSPGLPRHRKSENRR LDDTARRSPGMAGPGCPPLPGG VPDVRAAAYGAPTSARQPRVGV PPGGRWPRGARGARSFLKKPFR GTPTQVRGAWQCPPPPLTV\EK *PWHPCGRFQGRRHEEKGGRE LGHSKSPPPRRSHYPAGEKGEE ERKEREESSCAGLRRGAHEHA QQQSLPGELPAPGDHPGRCVG GQGRSRMGPCS*SLAQHPVCT RGQREKQERRATNKPVRGAPK
19343	49711	A	19456	497	756	TWLKSGISFPALFTIAKTWR*P KCPMSIDWIKKMW/HIYTMET YAAIEKDEFMYFAGTWMTLDT VILSKLSQEQTCKHRMFSLSGS
19344	49712	A	19457	100	819	EWSSVRRILVEKRALRRPHPQC LCFRMKTILSNQTVVDSHQNKNV DITLKGTPQ*SCKGPRGTLLRRD FNHIKCGTSALLGKEQQRGR VDIKWWGNRKGWATRSGLF GSHVQDHDPRGVTTGASGYKD EGPVYASPSPHPTVVIPGRNGSS LLKSRNFLGAEKYPQGFMRMKT VLLCSVSQSPEKMKLILE/GNDI\ ELVFKFQRALIQVATTVKNGG IRKFFGWVWMSLEKGTVPGLI
19345	49713	C	19458	395	574	
19346	49714	A	19459	1	1476	
19347	49715	A	19460	2	323	
19348	49716	A	19461	539	711	HRFPQDRKAGECLLHEYEDLV PIRDTLRLFPGGRYLPRAKHVA PSEPDPGWLVLG*FYC*FCHSP ALLSGFCLAVNVYRERSV
19349	49717	A	19462	66	2873	SARTISYDYQNWGRDGGPRSS GGGYGGGAGGHGNGRSGSR GGGGGGGGRG/WQGPASRAPE RPRNRHVREKTGAEEQGSWR GKREL/LVHMDERREEQIVQVL DSGQAENG*RVRTTDFRFAPE DHGYGTEVSTKNTPCSENKL/G HPGKEVDKSRKKNV/SESGTDH ILTRDSEYLLQENEPDGTLDQK LLEDLQKKNDLRYIEMQELV NLIDNHQTVVISGETGCGKTTQ VTQFILDNYIERGKGS

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19350	49718	A	19463	1	2112	FRKTTTRRLRKVKGRTAGCARF RKWLLRQHLRTLGLICNHTSR MTRCRWSAESDSGDEEEEGPIV LGRRQKALGKNRSADFNPDFV FTEKEGT YDGSWALADVMSPL MKKRAATTLHEKIEKARKRRK TEDKEAKSGKLEKEKEAKEGSE PKEQEDLQENDEEGSEDEASET DYSSADENILTKADTLKVKDRR EEEEERTGSRRI*RCIS/ATMKT SSFQDMNLSRPLLKAITAMGFK QPTPIQKACIPVGLLGKDICA/C AAPGTGKTPFPALPVLRLIYIP SPGSSL/TRVLVLPTRRELGMQ VHSVTRQLAQFCNITTCLAVGG LDVKSQEAALRAAPDILATPG RLIDHLHNCPSFHLSSIEVLILDE ADRMLEDYFEEQMKELIRMCSE HRQTMLFSATMTDEVKDLASV SLKNPVRIFVNSNTDVAFLRQ EVIRNRPNREGDREAIVAALLT RTFTDHWMLFTQTKKQAHRMH ILLGL/LGVQVQELHGNLSQQT RLEALRRFKDEQIDILVATDVA ARGLDIEGVKTVINFTMPNTIK HYVHRVGR TARAGRAGRSVSL VGEDERKMLKEIVKAAKAPVK ARILPQDVILKFRDKIEKME/KD VYAVLQLEAEKEMQQSEAQI NTAKRLLEKGKEAVVQEPERS WFQTKERKKEKIAKALQEFDL ALRGKKKKKKFMKDAKKKGE
19351	49719	A	19464	354	446	RQHAH*ESSPLNLTYPGTQILR KAAGTSA
19352	49720	A	19465	42	388	
19353	49721	A	19466	177	497	
19354	49722	A	19467	271	773	TAMSSEEGKLFVGGNLNFTDE QALDEHFSSFGPISEVVVKDR ETQSRSGFGFITFTNP/HAASSC Q*RSQ*TGEVSWNG/RQIPLLDH AGKSCSGEPRGRWALGPMGVG SQLILEVVGDQGYGSGRYYDS RPGGYGYGGRSRDYNGRNQG YGDRYSGGNYRDNDYDN
19355	49723	A	19468	2	414	GRVGPPRRAGGPRASAAGDPA RGAAPKMSQTAMSETYDFLF KFLVIGNAGTGKSCLLHQFIEK K/WSVTRSYRGAAGALLVYDI TSRETNYALTNWLTDMRLAS QNIVILCGNKKDLADREVT LEASRFAQEN

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19356	49724	A	19469	397	445	GHRGAHRPRTLRSVVVRAHR CSYSGIWD/TAGPDRFRSVTRSY H*GRPGALLVYDITARETYNAL TNWLTDAARMLASQNVIIICGN KKDLADAREVTFLEASRFAQE NELMFLETSALTGENVEEAFVQ CARKILNKIESERMGSQYQGD AALRQLRSPRAQAPNAQECG
19357	49725	A	19470	2	559	
19358	49726	A	19471	1	483	
19359	49727	A	19472	95	352	RKATKMATIWASGTPKQPCPR ELLAQERRQTRTRYNQ* ^{DQ} *QE RRSRQRMGVGCLHMLRSEKA PQQRSAFCTPKSSRPSARLT
19360	49728	B	19473	247	1364	
19361	49729	A	19474	422	877	CHTQTQ*QHTP*QPTPIDMAPTS HARMPFHTHFLTQILTLVSRSP DPG/PHGGKVPTRIPIPPAQPWG PSTLPSSSFLGPPRPFPSPVPGP GGENRKPFSTPP* ^A * ^G FPGPPSG P* ^A GGE/PPVVGRTATPSPPTP SPACGLKCKWHLKLN
19362	49730	A	19475	168	522	LALHPTRLIPATDDEVTVTED KINAPH*KQPVNVNVEP/APGLF AKALANVNIGSLICNVGAGGP CCQPAAGGCTQPGGSCPLHCWL LPA* ^G RRKWEAKKEGFRGSFD* LTWGFSGF
19363	49731	A	19476	1	328	
19364	49732	A	19477	1	1204	MASRLLLNNGAKMPILGLGTW KGSILRVGFGSSREPPYRGQP LMGGPPVRJLGPGRPKRHINAR GRRGK WASQTGGPRAQTGTWS RRQGQVTEA/VKVAIDVGYRHI DCAHVYQNEVEGVAIQEKL EQVVKREE/LFIVSKLWCTYHE ERGLV/KGACQEDTSSDLK/LAD LPGPLTLIHWPTGFKPGKEFFPL DESGNVGSPDTHISDTWA/AME KLVDGLVKAGISNFNHLQVE MILNKP/GLKYKPA/VNQIECHP YLTOEKLQYQCSKGIVVTAYS PLGLS* ^T GPPWPKP/EDPS/LLED RIQGGSQPKHNK/TTA/QVLIJRG SPCKRNLVVP/KSVTPER/VAEN FK/VFDFELS/SQGYDPP* ^L SLPT RNWR/VWCPWCST/SHKDYD LPMKEVLKA
19365	49733	C	19478	300	489	

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19366	49734	A	19479	243	471	CDHLQVSRPRIPATVPVWEKRS EMDSKEEEKKEKKEKRRRR *RRRGKEEEEERRRRRRRRKK RGKKK*IKKRV
19367	49735	A	19480	1	365	MGLYKDLLDTRYLFYLVPGYG LTQIELEVIKDSAPVGTPTRV GLKLEMGYYLGGHLDKFIFAMP FKIKDILSLKKEEEK/ERRRRRR RRKEEEDEEEEEEEEERRRR RRRRRKKRRKKID*KKEEKE EEEGEGEKKKKMKKKRRKK KKKKGGGGGKGGERRRRGRKK
19368	49736	A	19481	96	508	PAGSLVCPNQCSSARLFSSFFCS SAVMSASPAVGKRGWAELTGS FLPKPPLKTLGSGREDR*QVW WLTPVIPALWEAEVGGSEGOE FETSLGNMVKPLLYWLGSNGW LWKLGRRLWQLLWQDDWPT RGSHILVL
19369	49737	A	19482	3	1013	SRPSWGTHWNEYARRLTLAPS WPLP*GHPVPSLRVSC/LPHYY ESVLEKKGPCDRDYKKFWAGL QGLTIYFYNSNRDFQHVLEKLN GAFKELTDEIPWGSRRDPGTHF SLILRNQEIKFVETLECREMW KGFILTVVELRVPTDLTL/LPGH LYMMSEVLAKEEARRALETPS CFLKVSRLAQLLERYPECGN LLLRPSGDGARQVRVGHHAADA QRDA/PWFRHYKVEAGRGPY VIRCGTAVLLHLPWTTVVNYF VSHTKKALVPFLLEDYKVL GYVEADKENGENVVWAPSAPG PGSPPLHKVPPSRCQPASSQDKL PPLPPLRNPGREIT

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19370	49738	A	19483	63	1496	LISAMACVLRPLVSVYSEKGESS GKNVTLPAVFKAPIRPDIVNFG SHPNLRKNNRQPVQWQGN*AG HQTSAEWSGYWPRAVGSKFP R\VRGGGTHRS\GQGCFLTMC R\GGRNVLHPTKTLGRRWHRR SSTQPKKRIRPSGSAPGCPQLP ALGHGLKGHL\Y*GKFPETSF* VER*KLKG*QEEPREAVFAPLR KLKRPGNDIQKGSMASSAK*RA GQKAKLRKPVARIPAAAGAPCI\N YNEDNGYSFKAF\RKHPWGLL MLNC*GKLEHF*KLAPLVGHV G\RFHLHGLLESALREV*DDLYG T\WR*SHFPLQGVNLPFSPWHK M\NNTDS*AESLKSPEIPREPLRA PR\KKIHSQS*RRNPLEKL*EIM LKA*TPFAKAHAAGTPFFGQAR N\HKLRVDKAAAAA\ANLQA NSDEKAAVAGKKPVVGKKGK KAAVGVKKQKKPLVGKKA TKKPAPEKKPAEKKP\TTEKKP AA
19371	49739	A	19484	3	730	KRLPKMAEVQVLVL\DRG\HL LG\RLA\IVAK\QVLLGRK\VV V\VARCEGINUSANFYRN\RLKY LGFSPPSGMNTNPSRRPLTTS APSRIFWRTVVRGMLPPQNP SGQGRLLDRLQGV*RASPPY GQEKSGMVVPAALKVVRLKPTR KFCLIWGR\LAPEVGWKYQAV TAPPGGERGKRKAKIHYRKKK QLMRL\RKQAREETWRKKIDK YTEVLKTHGLPGLSPIKTVNSS KKKKKKRAAA
19372	49740	A	19485	1	660	PTRPRTGRRTKSTPMKGLGA RYREYKVVGRCLPTQNA TRGPLLPACEIFAPN\HVVA KVPAFW*LCILS*KKMKKFFQ GKIVYLWGKVF*EGSPLR VERTFGDLGLRLLT PRERAPHNIVTGEYRG* PTAGGCSTQLLTRDNGVARHR RPEAHFHFRFMEGWEGDRGP/C KIPPGGLVKASSNDSKIKVSRV PHRVLAAFRNKARFTTKRPNT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19373	49741	A	19486	51	471	EAGRLPGNILLDSIMACGLVAS NLNLKPGCECLRVGEVAPDAK/ S*VLPARCVHGILSDRLVGQWG WSWPRWPHAHPLPPSFVLNLG KDSNNLCLHFNPRFNAHGDAN TIVCNSKDGGAWGTEQREAVF PFQPGSVAEVC
19374	49742	A	19487	59	527	ETQSWPCGLVAISNLFNTLES CLRFKPSWLPDAIKSFRCLNLG QRPPTTWCLHFQPSASTAHGS ARHASLCSQGTAGHEGGPTQ REAVFFPQPGKCCRGAFTFRT RANLNRSSLPDGITEFQVSPNGF NLAEAINYMAADGGLRSRSCV AFD
19375	49743	A	19488	2	440	KQQCRDTGDEVVCSCFVGYQL LSDGVSCEDVNECITGSHSRAF GESCINTVGSFRCQ/RISSCATG YELTEDNSCKDTLGSFRCPKL QCKSGFIQDALGNCIDINECLSI SAPICPIGVTCINTEGSYKCQKN VPINCGPLVNHLE
19376	49744	A	19489	2	2061	
19377	49745	A	19490	2	2120	
19378	49746	B	19491	63	255	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19379	49747	A	19492	2	1941	PPPMERAAAPSRRVPLPLLLGG LALLAAGVDADVLLEACADG HRMATHQKDCSLPYATESKEC RMVQEQQCHSQLEELHCATGIS LANEQDRCATPHGDNASLJEAT FVKRCHCCLLGRAAQAQGS CEYSLMVGYYCCGVFQACCVK SQIETGDLDDVGLQETDKIIEVE EEQIEDPYLNDRCRGGGCKQS CRDTGDEVVCSFVGYQLSD GVSCEDVNECITGSHSCLRGES VCINTVGSFRQCRNSSCGTGYE LTEDNSCKD\DECESGIHNCLP DFICQNTLGSRFRCKLQCKSGF ITRML*GNLLLDIQWSVLSIQLP RCMIGD*HGINTEGFYNVPEGT CPNCGPLGYHLQGRGRTRCV\D V\DECAPPCLSPVKG\HR\CV E LFPGSFPLAECKDGVTFDGI SR DVLFDVQRSCQRLPRGACCGH K/CTENTLGSYL/CSCSVGFRLS VDGRSCEDINECSSPCKPGSVA NVVYGSYQCY\CR\RG*PASAIV GWEFTCERTFDGVAALPHRGH TFWFLTAGIQTSWGSFPVAACP SSGLTGWAPNGPATCQ\DI\DEL C*LG\HNCFHSTEDLVSNIPGAG FRCLGLSSCPENYRRAAT*S*G NSCMRAIGAGWEKEKGKLAGS
19380	49748	B	19493	123	237	
19381	49749	A	19494	285	456	VINKRLVCTRLRRKWSCLQPH RMM*VQAGSRGSQPKYHRHE MGWTGHTDTPPHRL
19382	49750	A	19495	383	693	NFLPAQPCLSAPPS*SRSLLDNS PLNCKAFHSSSHLLKLESCSE NSPGPLLQPGGTCLGACPGCFS FSPGISAGKPLSKAASPPVCTGS GAETSTTPPSPLR
19383	49751	B	19496	28	236	

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19384	49752	A	19497	1	927	PAAPQVAGRLGLGCPHLHLHVF AVVSAMLLRLRCVPRVLGSSV AGLRAAAPASPPRQLLQAPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGSGGCSLHIDGDKAF VDFLSDEIKEERKIQKHKTLLK\ MSGGWELELNGTEAKLVVRKVA GEKIPVPF\NINNSIPP\TFDGE TLARARRFEDREPELTSLPKF\ VE\VIKND*WQERPLVLD\ VHYP EDEVGQDEAE\SDIFS\REVSFQ \ TGSEW\KDTNYTLN\PD\FWT GPLYD\HLMGFP*PNRGVDN\TF A\DELVELSTAPRSPGPVLPFP
19385	49753	A	19498	3	342	LDTNLPANRVPAGLEKRLCAA AASILGKPADRVNVTVRPGLA MALSGSTEPCQLSISSIGVVG ARDNRRHIGAPFFGFSPRELALG QDRILIRFFPLESWQNGKIRTGM TFL
19386	49754	A	19499	3	520	SSARAVSVPLPAMPFLELDTNL PANRSARGGWKRRLCAAAAS\ LGKPA\DRVNVDRYAGGFAIGA *AGST\EPCA\QLSISSIRRWGT AED\NRSHSAHFF*VSSPRELSP GARDRIILFRFFPLESWADWAR *GTVIDFFMIWGTGEGFQGHV NLAASFQKRSSWAEVKGLG
19387	49755	A	19500	7	355	
19388	49756	B	19501	172	479	

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19389	49757	A	19502	1	1656	LEDPDSSSRPRRAGSGHSASFPP PPLEQLWRQVKTLNPKAEVAR AQAALAVNISAARGLDVLRIT NLGPKGTMKMLVSGAGDIKLT KVDGNVLALHRNCKFQHTASLI AKVSNKPQE*YNLV DGTDFLIV LINWESLLKQADLYISEGLHPR ITTEGFEGAKEKALQFLEEVKV SREMDRETLIDVARTSLRTKV HAELADVLTEAVVDSILAIIKKQ DEPDLFM/SVIMEMKHKSETD TSLIRGLVLDHGARHPDMKKR WRDAYILTCNVSEYEKTEVN SGFFYYKSAEEREKLVKAERKFI EDRVKIIIEELKRVCGSDSKGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTLACGWG/M PLNSFDDLSDDCLGHAGLVYE YTLGEVEKFTFIEKCN\NPRSVTL LIKGPNKATSLRIQRWQ*GDG L*GAVIKNAIDDCVVPVGA VSGSQWAGSPGFKHKFSC*RA RAQLGSPKHLDDAFAHYFPKVL CFRNSGFLTQGNIKLKFAEH SESGQLVGVD*TPGEPNWWP ARSKAVWG
19390	49758	A	19503	2	424	EGPVMAAPPNPGPATLGGPGDP DLGRLPLHEVFLHVRPARPRG APLHRRGLRGRHAVRAVRQRR REPEDGAAGAVDRAGGAGVLG RGDRESEGLTD*PREPADRAP LLQPERGRFSHPLPTLTCAPSPII FPVAERWG
19391	49759	A	19504	3	174	
19392	49760	A	19505	2	153	LPLHEVFLHVRPARPRGAPLH RRGLRGRHAVH*PSEPGDPARL LQPERG
19393	49761	A	19506	3	354	EDGRHGAPNPPATLGGPGDP DLGGLPLHEVFLHVRPARPRG APLHRRGLRGRHAVRAVRQRR REPKNGAAGAVDRAGGAGVL GPGDTEYEGPLTD*PSEPGDPA RLQPERGR

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19394	49762	A	19507	3	1246	GSTHASARMAVMA P R T L P PAT LGGPGDPDLGG L PLHEG F LI RV P AR P RGAPL H RRGLRGRHA VR A V R QRRREPEDGAAGARG* EARKGPE* L GRG N TESEGPT H R LDPSEPGDPARLLQ P E*GRFFTP FQIMYGC D VGS D GAFSSAGYP QERLTNGKD Y IALN E DLRSWT AADMAAQIT K R K WETPPMR R R SLRAYLDGTC V E W LRRYLENG KETLQ R TD P P K THMTHHPIS* P *RPL* R C W A L A F YPCGDHT* P WQ R DG E DQTQGHGS L LETRPA GAG I TFQ K WAS M V P SGQE R YT C H V Q Q * R V L PK L TL K M/ W EPSSQAHP S PIRGAS F AGPW F SL GSL*ITGA V GR C W* C *RKEQLR WRRGER* K KEGAYSQ G CKASD QCPGASDVSLHSFVKVLRQLAL
19395	49763	A	19508	1	392	
19396	49764	A	19509	1	220	
19397	49765	A	19510	3	500	
19398	49766	B	19511	28	134	
19399	49767	A	19512	1	1662	MAASVVCRAATAGA Q VLLRA RRSPALLRTPALRSTATFAQAL QFVPETQVSL D NGLRVASEQ SSO P TCTVGVWIDVGS R FET E K NNGAGYFLEHLAFKGT K NRN GSALEERRW R AWGAHLNAYST REHTAYYIKALAKELPKA V EL LGDIVQNC S LEDFTD*GRNVDV ILREMQEN D ASMRD V VVCNYL HATAFQ G IPLAQA L EGPSEN V RKLSRADL T E V LSTH*QG P SKW CWAAGREWEHQ L FR T FAQE GTSVGIP W TYAEDAV P TLTPCR FTGSE I RHRDDAL P FAHVAIAV EGPGWASPD N VALQVANAING HYDCTYGGGVH S SP L ASGA VANKLCQSFQ T FSICYAETGLL GAHFVCD R MKIDDM M FV L Q QWMRLCTSATES D VDRGKNIL RNALVSHLDG T TPVCEDIG R SL LTYGRRIP L AEWES R IAEV D AS VVREICSKYIYDQCPA V AGYGR SLGLPFHLC S RTAAQLTEQ P VK APSSSPQSPGCQGVLAQK T CPSS SLTACQGA F INTLHPSG P IEQLP DYNRI R SGMFWLRF

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19400	49768	A	19513	2	1693	AQSTLARRNRADCSWKMAASV VCRAATAGA QVLLRARRISPAL LRTPALRSTATTAAQALQFVVPET QVSLLDNGLRVA\SEQSSQPTC TVG\WVIDVGSRFETEKND/SGA GYFLEHLAFKGTKNPALAVPW EKEVESMG AHL\NA\YSTREHT AYYRKALSKDLPKAVGALGDI VQNCSEDSQIEKERDVILREM QENDASMRDVVFNYLHATAFQ G\TPLAQAVEGSENVKRLSTA DFTRYL\STHYKAPESVLPQTEG VRTEQLLDL\ARNHRVHIP*TY AEGAL\PTITPCRTGTSEIRHP*D ALPFAH\VA\AVEGPG\WPAPD N\VALQVGN\IGHYDCTFGG\ GVHLS\SP\GSGAGCPTKLCQS FQTL\SCYAEDGLCWVHTLFC DRMKIDDMMFVLA/QGHWMR L\CTSA\TRSEV\ARGQKNIPQK MPLGISS*DGNYSLCVEDITPAA LLTLWARRNPPGLKWES\RIAG GGFQVVVR*DLAPRYIYGPSCP AVA\GY\WPH*SMLPDYNRIP*P ACFWVAFFRAGKPMVKQKGR GGGLWSPPPPTQHFRLLLTCC
19401	49769	A	19514	46	422	
19402	49770	A	19515	568	1567	GPWAANGVVLAFPPCLGSPAP HLAPQKAVPPKWGISSLCSEHF HIYQVGGVAFCGRIRFLSSTDF KRRAGSGSLMSQEEKHELSG KIRSQIMDDHARPLYTMSNCP CWAGALGPQESKCSRGRLLHR AFPSLV\TLLLAGQATTGLLSCY QQQGAGWDKLDShRPRNLAA WEEPCGMEAFPPKPSQSLVEAKI AQLATPGLLDCKAACPWGAPC PRGP\MQNATKVIGNM\TEDHV DAPGSRNAEPP*KVYPP/LKGSF P/EKNLRHLKNTMETIEWKAFE NWMHHWLLF\ELSKQSLWEQ/ QSPLDAPK/ENSELEDEPSSGL GVTKQDLGPVPM
19403	49771	B	19516	1	1428	

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19404	49772	A	19517	1	2293	MARSEAAAAGPGPGPPGLAAR ERRGGRGCVRGCEASVRVWS VALRRARRAPRPYVARCRRV RRPARVAIGCGGVSSPAGVSGC ARVSPERPPLRLCVWALSRAHG GAVCRAGPGPDSLKRGLTSHPP AFPLHHGSRTL.LGLSPPPAAL PFL.L.L.WAGHLVAS/ACPGRCIC QNV/SPTL.TMLCAKTGLLFVPP/ SIDRRVVLELRL.TDNF.RRH.FAN MTSLV/QLTL.SRNTIGQVAAAGA F/V.DLRALRALH.LDS.NRLAGC/ GGDQLRGLGNLRHL/VGNNQI RRVESAAFD/DLLSTVEDLDLS YNNLEA/LPWEAVGQM.VNLNT LT/LDHN.LIDHIAEGTFVQLQSW A/RAQA.AHPLTVSFGGNPLHCN CE/LL.WL.RRLTREDDLET.CASP N/NL.TDRYFWSIPEEESCTRCQR FCG*ASLVAAELTSNSVLIRW/S TQRPVPGIRMYQVQYN/SSVDD SLVYRKYSLSYMNFTMR/MIPST SQTFLVNDLAAGRAYDLCVLA VYDDGATALPATRVVGCQVFT TAGDPAPCRPLRAHFLGGTMII AIGGVIVASVLVFIVLLMIRYKV YGDGDSRRVKGSRS.LPRVSHV CSQ.TNGAGTGAA/AGPGPAGPG PLRGAARGGV/WLPPSPSRPR PWRPR/LASAEPEVVLGRSLG SATSLCLLPSEETSVEESRAAVG PRRSRSGALEPPTAPPTLALVP
19405	49773	B	19518	97	255	

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19406	49774	A	19519	1321	1728	EHAHDRDLHHAHYVQATLVR ASLREAVVGSPTDAWLQORTA RSSASLLARNRPATSVWLPRA GFIAGTGGRERRRGSEGWEG GAGGTGAGLSAHSQTSACEGS/ CGGSAGRGRCLLSAATPPLQPP RPAPPTAGLVQPRQVPTAPPPRA SAGNEHHQGWSGRL*KSLAAA RVGEAPGKLP RPDRFRKQSNGA LARASLRVSAQPGTSSSAAAF PPLGPAPLAAPARSCDESGPRQP DGRGGVPVPGQQQGA/ESEPCA AATRRPWVNNRR/TSRREARTS VACT*CAWCRSRSCACSHSPWS SASSSSAAICSSSPRA*STSS*RT GGRLRRWRRWSWGPTDPPYAP AATAPTPAHFASP/ACAPHYQR LGEANLSESHLD/CRPFGKKRP VSPSPSESPHAWQSEESAQTLN SAESGKKRAIRAQNFGR/LLLT WNAGRPTVRRPFTRRWAKLW GQVERAGRGETQRH*SPCDRKS DLLKATQQTGHGVSQIRVRVRSP LFSLPPCPRKGGANKIPLNCKR ARFKKGFFVFCLEIQMFE
19407	49775	A	19520	192	447	
19408	49776	A	19521	1	591	
19409	49777	A	19522	281	421	
19410	49778	A	19523	174	512	
19411	49779	B	19524	67	1166	
19412	49780	A	19525	1	1620	MGAKDGRLLSESSQGLSSCGAS LVFPVCVSKSRLLMKTVPRLDKE TVSTVDSGAPTDLAQLPTVLKQ PCCSVMASGQFVNKLQEEVICP ICLDILQKPVTIDCGHNFLCKCI TQIGETSCGFFK.CPLCKTSVRK NAIRFNSLLRN.LVEKIQALQASE VQSKRKEATCPRHQEMFHYFC EDDGKFLCFVCRESKDHKSHN VSLIEEAAQNYQGQIQEQIVL QQKEKETVQVKAQGVHRVDV FTDQVEHEKQRILTEFELLHQV LEEEKNFLLSRJY.WLGHEGTEA GKHVYASTE/PTVERSQAHA*FP VCLLASDYDEISGGGASSQDTKT FDVALSEELHAALTSAPDLILS QDEIVTLNLASQGGSQKRGNPR RFYRRGFLEVEPLTGFVELHSS GSQCQALIESGREDLPVCPNK
19413	49781	A	19526	203	359	

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19414	49782	A	19527	135	466	DPAGSSAASMSSAAGLCALTPP /GLLSGLLLLLPLVVFASAEA\ EEDGDLQCLCVKTTLPQSVPGH IHQLGG*FKGRDPHCPTCT**A TVEGMGRKILLGTWQAPLLQG
19415	49783	A	19528	46	468	TGPTHASAAAILVPRSLHKMPGE ATETVPATEQELPQPAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
19416	49784	A	19529	337	509	ISQQLLVVLACINLRSWLPQKL CKYLKQDVLTAIDLSEVPEFC PFVDHLVVALEEEGPAL*GHPA SDTYIVFGEAKIEDLSQQAQLA AAEKFKVQGEAVSNIQENTQTP TVQEESEEEVDE/TGVEVKDIE LVMSQANVSRAKAVRALKNNS NDIVNAIMELTM
19417	49785	A	19530	91	1019	GELLALLGHRVPTRPWASGQK GVCGWCPGKSTLQGLRCGPTR ACRDGSSCSVEGGRGVRLVLG TASQDPEKEMPGEATEPVPAIT EQGVAASPRAETGSGTESDSD ESVPELLEEQDSHPGQPHNKAQ AGRQQSEIDEPVS.KAKQSRN* KEGPGRAMSQTGVFGQVTGVT KEFTNRKSKNILLCHPPKPDVY QGAPASRYFTIVFGGSPRSEDLS PSKHNLASCLRNKFKQGEAVSN IQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRA KAVPSPEERTSNDIVNAIMVS
19418	49786	A	19531	1	261	MWGFHSHPGTGQARAYTDTGS GSPILIMHVNRGRHSEIPVLER NLLHFRMDAST*NLGMSSLME AILKNQFRHVS LAVSFAFSGEK
19419	49787	A	19532	277	349	
19420	49788	A	19533	792	1014	

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19421	49789	A	19534	849	1752	GESRGWERRKCVRLSSYATHL SVCDCHIGNVREGADPAGGAG *L*GARQQQTHTHKPAKATQR GEDREEKKRETKREERLQQQE NERDERGRREKEPRNRGTKRRE AEKGRRR/ESEKREEKGEEER QERQQKRAREKRRGRGARRRG REKKKTQRPRTQAQRPLKKIK DYTHHTTQTPTQQHHTHTTKH KQPHNTNTTVLFFLLAKEHR RAARKQHEPERGGGSKAGA KIKHTSIAAADRRHDPRTQD TRRKEGRRAQSGKHGRTAHKT EAGGGIPVHSTSRVQVILLQPP
19422	49790	A	19535	139	470	
19423	49791	A	19536	2	83	
19424	49792	A	19537	32	434	NRRKGA/GPVFQRAT*KH/RV*R AGLRVDF/ERHGYIKGIVKDI IHNPRR/GAPLAKVVFRDPYRFK KRTELFIAAEGIHGTQGFVYCGK KAQLNIGNV/LP/VGTMPEGTIV CCLEPRLCRKRRTSAEGLNKV CVYAT
19425	49793	A	19538	10	443	
19426	49794	A	19539	63	376	
19427	49795	A	19540	170	368	
19428	49796	A	19541	175	427	
19429	49797	A	19542	1727	2262	
19430	49798	A	19543	131	596	
19431	49799	A	19544	695	1337	GFGTQGERRRQCRLRVTPQLG ASSATQKITPALPETPVKAEQSC TLPLSPRTPGHLQPLRLDPSPW AVLIRG/QRKAGSVVRRATLR HGK/GAVRRLLRRWISPERHGY IKGIVKDIHRPRSRAPPLRQR WFRDYSYRF*ER/TELFIAARG AFHTGPSFVYCRQERPSFNIGO WCSFVGHHCLEGYNSCCLPWK EETLETCKGAGPAGFKGN
19432	49800	A	19545	1	813	
19433	49801	A	19546	227	381	
19434	49802	A	19547	135	740	PQPLPPPTSMARHVLTGPPGV GKTLTIHKASEVLKSSGVVPDVG FYTEEVRRQGGRI/GFDVTVVVR HPGGLLSRVGLEPPP/RENVNAE LGSYVVDLTSFWSWALTRLE GM*ADCQQWAQGGQRVCVIDEE LGKMEALS VK/FSKAVRQTL YPRDI*SL/VHKSQVPKGLPLAL VEEIRNRKDVKFVNVTQ/ENRN HLLARYS

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19435	49803	C	19548	251	574	
19436	49804	A	19549	2	450	
19437	49805	B	19550	721	3048	
19438	49806	A	19551	3	396	
19439	49807	A	19552	2	450	
19440	49808	A	19553	2	1152	GPPLHCTRAAGIRHEAPLGLAG LCRAADAGLCSAGWGFVKVV KNKAYFKR/YQVKF*KTPERV KRDYYARKRLVIQDKNKYNT KYRMIVRVTRNDINLSRLLYA PV*RGDMDSLAQR*LHTELAKI LVVEGLALTNLPAALFVPGPA CLAPQAFLQ*VLAMDKDLLEG PSWS*LGDEYNVIESIDGQP/GA FTCYL/DADLARTTTGNKVFG/ APEGAVDGLSNPHSSKRFLG/ YVYPLHSTQTDSPGFMDEKQR NFNARSTSGKHIMGQNCIQDY IAL*WERKMKDAYKK/QFSQY IKNSVT/PPMMEEMKKAHA AIRENPVLWKRRPKERSLKRR GWNRSQNVPLLRKKDRVA/Q KASFLQSSRSGLLES/TPAIFP
19441	49809	A	19554	3	991	LTSRGVGSACVMLLVVRAGAR AWLRPTGSQGLS/LAEEAARA TENPEQVASEGLPEPVL/RKVEL PVPTHR/RPVHAWIESLRGFEHE RVCLVDLHPDVFANAPRLDILH QDAMLQKNF*RIYAKTKTRA VR/GGGGKPLAARH/WAGPA WQHPLSALARRRCCP/WPPGPT SYYYMLPMKVRLGLKVALTV KLAQDDLHIMDSL*LPT/GDPQ LP*PELAHYRRWGDVLLVDL THEEMPQSIR/EATSR/LKTFNL/ PAVGLNVHSM/LKHQTLVLTL TV/AFLEDKLL/WQDSRLQTPLY PFS/LPYSDFP/RPLPHATQGP/A ATPYHC
19442	49810	A	19555	31	305	
19443	49811	A	19556	213	541	DGGPAAHTPGAARGELSPVGD SGGYFRPSHLRCWILNLCISVPL SSAKDLLHPSSEEEVRRNPMKN RLVQSPNSYFMDVKCPGEETV CCIGESTGPQQLENVVLA VSY

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19444	49812	A	19557	164	591	DINSRDRSGPRATRIDGSGEGD KMAAQLRHRHQRRGASSPRFA KDILLHPSPEEEKRKHKKRL VQSPNSVYFMGVKCPG/CFKFT TVF*AMAQTVVLVCVG/CAAPLF LCQPTGEKARLTEGCSFRRKHA LKATLSQDEWETILQ
19445	49813	A	19558	362	916	GGRCTMARTKADWPANRTGG KAPKEANWLTKSPLRKSAALY LEGSKKPHRYR\PGTVAPP*NLD GYQKSTVELLIRKLPFQ/RRLVRE IAQGLLKQDSRFQSAAGCFAG RQVRAYLVWPFLKDTNLCA/HH AKRVTIYAKKTFQLSTPAYRG EPCFKDPLMDGETFHSQKKKK KISLLPVIGSSER
19446	49814	A	19559	849	1261	DGHIAGGPCS*GWPRDPAPKSQ PTMSSGSEPEKLPPAPRPQHYS PAEVSGRPFAVGKALNQQAFT ERRLHTSLCPVPAALTVPSPEL PQQIFPGLAPATHLYSKAWA GATVSRPGAILGAGLYWGLVR ETAS
19447	49815	A	19560	3	1852	
19448	49816	A	19561	362	1298	QGGNRNVRHPSPLLAWGSDLIV KPHWLHWLLDLNHARLSALFA AAGARLPSHIPAPSAGSRRLLL LLGGCRACLLFPPEMANRGPST GLSREVQEKIEQKYDADLENK LVD\WILQCAEDIEHPPGRAH FQKWLM\MDGRVLC\KL\INRLYP PGTRSPYPRFSESKDGFGRWE QISQFLKAAETYGVRTTDFIS RRWFLWEGKDMAACAEGP*L ALGSVAVTKDDGCGYRGPSWF HRKAQQNRRGFSEEQLRQGQN VIGLQMGSNKGASPGGP*TGYS ECPRQIHVTRHPAPWLERTNV STPWSFTKKK

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19449	49817	A	19562	3	2518	AAGEWPQRPRAAVAAAGAAA RQRLPGSRQVAAGAPQAGGG DPSQRVPPGAELIKVQVYVSGE LVPLARASVDVFGNRTLAAAG TTDSEGVATLPLSYRLGTWVLV TAARPGFLTNSVPWRVDKLLPL YASVSLYLLPERPATLILYEDLV HILLGSPGARSQPLVQFQRRAA RLPVSTYSQVLWASLTPASTQQ EMRAFPCLPGH*GSSSGNGSW LELMPLTAVSVHLLTGNGTEVP LSGPIHLSPVPSETRALTVGTSI PAWRFDPKSGLWVRNGTGVIR KEGRQLYWTFVSPQLGYWVA AMASPTAGLVTTTSGIQDIGTYH TIFLLTILAAALLVLILLCLLIY YCRRRCLKPRQHRKLQLSGPS DGNKRDQATSMSQLHLICGGP LEPAPSGDPEAPPPGLHSAFSS SRDLASSRDDFFRTKPRASRPA AAEPSGARGGESAGLKGARSA EGPGGLEPGLLEHRRGPAGAAA FLHEPPSPPPFDHYLGHKGAA EGKTPDFLLSQSVDQLARPPSL GQAGQLIFCGSIDHLKDNVYRN VMPTLVIPAHYVRLGGEAGAA GVGDPEAPPEGTAPGPARAFPO PDPQRPMQPGHSGPGGEGGGG GGEGWGAGRAAPVSGSVTIPV LFNESTMAQLNGELQALTEKK LLELGVKPHPRAWFVSLDGRS NSQVRHSYIDLQAGGGARSTD
19450	49818	A	19563	206	1126	LESGSHIYAFSHESLLHVASAS V*TSFSDFATSVCHSPHCLH HALIPHGKGECSSVSGIVATGF GATGFLGRVCVNHGRVGSQIP QAIAQVSKEAEVGKFIHVAHLN VNIKSSSRYLRKKAVGEKAVR DTFPEAIIVKLLDIFGREDRFLN YFANMCWFGAIPLVSLGWKAV KQPVVYVDVSKGIVNAVKDPD ANGKTFAFVGPNRYLLDFLVK YIFAVAHSKGWVARDFEISPF SWTTRDKVERIHITDMTSLHLP SLEDLGIQATPLELKAIEVRLH HTYCWLSAEIEDVKLAKTVNI

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19451	49819	A	19564	196	553	KLSEFFLTHSINTAIRNGNLFV NRVTEVTRSGGNELGSFCLLAI KFTLLSFLGTGTTRRLPALRPRR LQQRGSHGLAGRLFTLWILHA GCHARGELEPDTC*LSLCRAR KPRLSLTK
19452	49820	A	19565	1	505	ATEDPGVAMGRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKEVDFPLCGHMSVDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVLPFHVIRIINK MLSCAGAD/RHISKKGWFTKF NADEFEDMVAEKRLLPDGCGV KYIPSRGPLDKWRALHS
19453	49821	A	19567	6	904	AQLSSLA VPLLVTLPFRSVLVFR SDSLFFVAATEDPGVAMGRRP ARCYRYCKTKPIYPKSRFCRG CPLMPRIKIFDI.GRKKGKKN EFPLCP/HMSVDEYEQLSSESP GRLPRICPNKYMKVSCGKDG/ HISRVRLHPFHVIRIHKMLSCA GADKAPKQACRGAFWKSPPKGN LLARGSLAQVIMSIRITKLQN KEHVI*GPAARPSFKFPGRQKI HISKKWGFTKFQC*WNLKDM VAEKRVHPHMACGGQSTSPSR GPLDKWRALPLHEGLPNVAA HPLNTPIKFLLPWSKKKKKK
19454	49822	C	19568	346	471	
19455	49823	A	19569	1495	2780	EGLHLFCDLLDGLPGVQVAGG FDSFSSILASFTYWHDFNSTML LSTFRDINLGMNIKKSAVCFSR LGSETWEMPANLRPSEGART RTELSPQTSPRAHLAWRGRGG LGAVRPRRLSRRLSL*KP*RSI* AEAPAGAPVRRCPAAPP/PPRP SRGSPSTPPPPSPGA/PRRRPP CSEHNKLSPPPPSSLCRLPAPSP RPAPRRSPSRRRRRRHPRPAD RREPLASATRVRLPPPPPP*PP SSSCPRRGRRFLAPWLARPAG APRRAPCSRAARSRRAGASGAR VGDPAGAGRGWRRRAAGRP* APERPPPPPLPAVCEVSGGLPLA SFADSVPGVRRRRPPGLGTPLSS SGV*PRNERGVETTTWSGGGSE GAPGSGEGGNLFPAPQVIVARS GEGTVVPRPVCQLRDSAVLLC LFD
19456	49824	A	19570	178	256	

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19457	49825	A	19571	622	1726	QSGSRTMMRMLVPASVGLLET GPPGDPSSLSHPLSGDVTVPED QSTVQKLA SDHKDIHSSVSRV GKAIDRNFDSEICGVVSDAVW DAREQQQQLQMAIVEHLYQQ GMLSVAEELCQESTLNVLDLF KQPFLELNRIEALHEQDLGPA LEWAVSHRQRLELNSSEFKL HRLHFIRLLAGGPAKQLEALS ARHFQPFARLHQREIQVMMGS LVYLRGLGLEKSPYCHLLDSSH WAEICETFTRDACSLGLSVES LSVSFASGCVALPVLNIAKAVI EQRQCTGVWNH KDELPFIELLS *SAWYHSVFACPIRQQTSDSN PPIKLCGHVISRDALNKLINGG KLKCRYCPMEQNPADGKTH
19458	49826	B	19573	271	392	
19459	49827	B	19574	58	296	
19460	49828	A	19575	215	861	QLPAESVTRTRGPAKAQARAGG PPGPWHCSYKWRAPSSLSGT GWPDMEGETTAAAPASRENSA DCSAIGEIRGPGKELWSPIQ VTATSS*MGRDFVLAT*EKVSH VDS*/EQPRSLQR\DP RPAGPAQ AKQGT PRAQASRESLSRPTAA VQLPSGQHPVITSGS*KGLAG KTSMGRKGLPWARGWAPWSL EAQNPRPTRLCDLFTGEDFDD DV
19461	49829	A	19576	65	782	SSSSAIQRKPRWVLYKYIQEL WRKKQSDVMRFLLRVRCWQY RQLSALHRA PRPTR/PDKVARRL GYKAKQGYVIYRIRVRRGGIRK RPSFLKGATYQQSPVHWSVFN QLKSFASE/VLSPVFARGRRSLG RH/CGGLLEEFLNFFNWVVER FPHYQIFLKVIPHLPFP*KLFRR N/PDQTLHQNQVHKHR\EMRG LTSARPEKSRGLGKGHKFHHTI GG/SLRRATWRRRNTQLHRY R
19462	49830	A	19577	1	179	QEDYLRELLTMDGR/FTDEEV DELYREAPIDQKG/MFN YIEFT RILKHGAKDKDLKEL

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19463	49831	A	19578	144	722	KKGLNHHHVEQNNTPRPRSG PQRATSNIVFAMFDIQSQIQEFK EAFNMIDPDQDGFHRPGKICND MLASLGAKNPT*WSILDAMMNE IAPGPPSNFTWPFPHHGFGEV* MATRS*KMVIRKCPCTCFE*KK PLGTIGEDYLRRELLTHGGIGF TDEEVDELYREAPI**KRGISITS EFTRILKHGAKDKDD
19464	49832	A	19579	3	429	VACLREHKQRCERATRSLLREL LQVRARVQLQGSELRLQEQEA RPAQAQPEKEAPEFSGLQNM QALDKRLVEVREALTRLRRRQ VQQAERRGAEQE/DRPQTGQA DRLAAAGGAGPGGGLRRPAEE PRGQQPEGPGGGGQN
19465	49833	A	19580	1	2454	RFPAGVAPRRAMANVSKKVSW SGRDRDDEEAAPLLRRRTARPGG GTPLLNGAGPGAARQSPRSALF RVGHMSSVKLDDELLEPDMDD PPHPFKIIPHNEKLLSLKYESL DYDENSEQLFLEEERINHTAF RTVEIKRWVICALIGILTGLVAC FIDIVVENLAGLKYRVIKGNIDK FTEKGGLSFSLLWATLNAAFV LVGSVIVAFIEPVAAGSGIPIQK CFLNGVKIPHVVRLKTLVIKVS GVILSVVGGAVGKEGPMHSG SVIAAGISQGRSSSLKRDFKIFE YLRRDTEKRDFVSAGAAAGVS AAGFAPVGGVLFSLLEEGASFW NQFLTWRIFFASMISTFTLNFVL SIYHGNMWDLSPLGILNFRFD SEKMAYTIHEIPVFIAMGVVGG VLGAVFNALNYWLTMFIRIYI HRPCLQVIEAVLVAAVTATVAF VLJYSSRDQPLQGGMSYPLQ LFCADGEYNSMAAAFFNTPEKS VVSLFHDPPGSYNPLTLGLFTL VYFFLACWTYGLTVSAGVFIPS LLIGAAWGRLFGISLSYLTGAAI WADPGKALMGAAQGLGGIV RMTLSLTVIMMEATSNVTYGF IMLVLMTAKIVGDVFIEGLYDM HIQLQSVPLHWEAPVTSHSLT AREVMSTPVTCLRRREKVGIV DVLSDTASNHNHGFVVEHADD TQPARLQGLILRSQILVLLKHK
19466	49834	B	19581	508	4413	

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19467	49835	A	19582	8	331	EVTACWQSSQPSLTLSASSAWA STLAALPEPFPPLHSESPFLGW PRPELGPSAAPCAPVPPEPPQRV PPAP*RPVPSTTQGLRSVGAW CRTGRQLHLIIPGVGSTG
19468	49836	A	19583	831	1121	
19469	49837	C	19584	1	1524	
19470	49838	A	19585	270	578	RFSKSPDDSGAQLAAPSGSRTG AAGGAACQSRVVRPHSSALGW SMGLGAMEQGAFLVGEAWAT QQPTVGGRLRHGGQLQVPSAPPR GG*GPAKSHSSCWPRC
19471	49839	A	19586	2	298	
19472	49840	B	19587	113	515	
19473	49841	A	19588	1	569	MLPDLRSPVAHHRCSRASGNY HSGRHSPAPAWRVLTGTWLDQ RSSRIHRSLAFKDSYSKGEERT HIKMCCELLPSG/EARGLAGFR SEAADLRGECYSS*RQCGPKEL RSPAGFTQWIPHWGYRWSCLS VPRPAPALLSPWVVDGTGRGC AGGGAHRRGSGRSGAHGGGG RLRHGGQLQVPSAPREGS
19474	49842	C	19589	1	1200	
19475	49843	A	19590	511	846	ARHRVLIGVFTPELIDKVLHVP TRLRSPASFTQWIPHWGCRWSC LPVPRRVPALLSPWVVDGTGG CGAGGGAHRRGGWGCTGAHGG GGRLRHGGQLQVASAPREGS*G PARN
19476	49844	A	19591	9	481	QQPLREKSPASGDHPAKNANRR WPSPTRYPYVES*NWMPSLHLI KQSIQDGLKT*TLDLKP*KL*KK T*ALPFR*ARTSLKHQKQ WQKTKLTNGI*LN*ASA/PA KETKI/SSEQATYKMGFNHNL LF*QRANIQLQ*TRDLQEK KQPHQK
19477	49845	A	19592	1	3339	MSVRKDVKELEPSDIVCGNVQ CYSCMETNLTVSQVKHEVT GPREGATKPNRMKGKEGRSGS LLGEGDFFKDESMSSQSSKD GEKRRGKAQRWKWPMQGICR QLGVAKSMEGYQSRDQGG GVSDKWQVCAKKPEFYPTAQ VWANFSVTSCQSVTITQLCHGL RRLEISPARSNAMHLNPDPPGQ KQNLSPKVNDIITDISSSGGA GKFQVISKSDISEVLLQQMDAG HSSKDDPNEYGGWKSPPRC
19478	49846	B	19593	1	631	

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19479	49847	A	19594	71	208	PCPKHCKSKFPMCPPELVGWSH* LQE*SHGSPSRFRLC*KQPQDLQ
19480	49848	A	19595	138	650	AWAQLPSALGSTRVSPPPSARS QPPWRRRRHKVCWRLNRCKE/L DEDAVASADFSMLSEEEKEEL KAELVQLEDEITTLRQVLSAER KAS/ELR*NKNSA*T*/CNELKPE LQKQLA*HAD*HCLQEDT*YAE SRRAGKNCSTFQQRWNGHQVEV RRHELLHSPFHKYACYETKVG
19481	49849	A	19596	1	1222	MRADGTA GKDPFATDKQLPEL LIQHCWDGLLA VCGGSTVGV LPFILHGSWVRPVAASFPLPDN LHDSAEPAILLEPTQMRNRQK TNAGTMTKQISSTLPKNHHTSS PAMDPNKEIHDLLKEFSRLVI ELIREGPEKGAQCEEIQKDDT KVKGEIFKEVDLSKKQLNIQE NLETLLV/LNALESLSNRIQVE ERNSEREDKVFELTQSNKDKA QRIRKYEPSLQEVWDYVKLPLK RIISFPNEEENSLSLEIFRGRK EHFHSIARDLDIQIQEEQTTPGK LIVKRS LPRHIVIMRAPTPMDHP RAEECGRRARDWQAAPPAAPV RDPLGEASWAPDSEGRK/WNTS KHQRNKLRTLRL*EL*HSSRGS VASFLKSVSRPTHQFTQSGYP KLRRWRKES
19482	49850	A	19597	381	598	
19483	49851	A	19598	1	1906	
19484	49852	A	19599	493	589	
19485	49853	A	19600	60	261	
19486	49854	A	19601	1423	1831	PRRSANVNLPPQLATLSPGW EERKSVGSPTSPPPRPLRLSA APGSGGAWPEGAWSLD*TAS PAGAPVQRPAGNG/PSALDASH ARALYLQRI PRVTWTPASQPPA PLGPFPLIPPAASHRQSSSFFR RHR

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19487	49855	A	19602	1	1535	MEEKTNVQLPPGQTEQHVEIHI MNFCSKNHHRITPEKPKELTDP FKEAACCCCKLYEIDKKLYRMA EWIKIHKPSICCLQETHLTHKDS HKLKVSITFKDLAVRFSEEEWR LLEEGQREFYRDVMRENXYETL VSVPEGRAVGGGSHADEGQEP AGCG/VSPGPGAAAGGEDPRVLV WRSQGRYGGPRER\GRGASLD GERASPEAA/DGKRALPSRPA QLPSRRYPQAPPG\PTPTDSSCS SGPTGDGVQGSP\PIRISPGNSP L/PRPHQLSEGNPCAWAPAPRDI PKLLATSP*PGHVQANQSRPGA WEPALGRSDQACASGSALC ERW\PQAP/APPEEPPASPHPA APTG\PGFWESCGEPGAA\PGKG SAPKPSPLHCLESALRGILP\EGP CASPAWEAPAPAPAPAPARASA A/AEGEDPRPEPELWKPLPQER DRLPSCKPPVPLSPCPGGTPAGS SGGSPGE/APGEQSPGTAAASV Q/VSPAHWPCFS/SPVRYSSGSLP GFSAGEKAQG
19488	49856	C	19603	4	150	
19489	49857	A	19604	148	448	RTRDWSLFLMFQCVRSFFLLV GLWSCWLRSEAADLRGECYSS *GGAGSVVRSSWWVRGLTSFR SETGFTQWIPHWGCRWSCLPVP RCAPALLSPWVVNG
19490	49858	A	19605	136	439	LVHFTFC*LVRLQTLARHSTDW CIYKSLARKSSPSPHSTQEVQL ASPLTGRQEDCSEPRSAPLHSSL GPTERDSICVAASSVRWTRPGA RFS
19491	49859	A	19606	2	399	SKLQKLKRSLSFKTKSLRSKSA DNFFQRTNSEDMLQAHMVAE ISPSSSPLPAPGSLTSTPARLVCI QVARLMPFRNTSSRSLFC/RCL QPHDSGFLFLRPARPRAHREER NNSRRVALRAVTLTTERLQLHS

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19492	49860	A	19607	1	1262	MPLSYAYKNAETLAGRHTSSW MSRGAYQRRNTRAAGRPEECT DRNWHAGRTRRIWLGQLEERC SDVFGVSFFWWVRGLAGSGAK LQFTTVSVTAHRGSKDQKSEQ KQDLLQKAKEQTIHNVKGDPS ELPLLAPAAACFYSLICPRPPHIL LIGPFYRELIGPFYRELIGRLRP GEKSSTAA/VWPRC*AA/RLPGA G/WTAPSAGPAEPTPTWNSRWP ASATRRPGSRRLSLHTSPQAE GAGSGLSQPRKGLPQCSGRLKR SSSAARVGARQRRRRERASEG/ WPACCHSLVPLCPGFGFLEAHSS SPEQTDHEQNCPADIKVMRLA GQPTNARGAANRAQPLHSTSV SHLKAVIFIKIQRQKNSHFPPPL FLEMTTSLATGRLRPSWVDYA RPALSVSVSRFSLTSLLELLV ETLGECGLL
19493	49861	C	19608	173	394	
19494	49862	A	19609	1	924	
19495	49863	A	19610	3	689	EVQEELEGVPRGAPHQLHQGP VEHLEAPHQHKFGKKVIYFNY LSELHEHLKYDQLVIPPEVLRIT MRSSRACTRAGRRLPPRHRR GPRCPHSSLASVCNTSKTKIKA NSSPLC*GSQ*RT*ERKACAPRA CSGDPPACRPSARSRGSTT/KGK PVNFDDYGDHHPAIVILKTFLRE LPQPLLTQAYEQILGITC/GGE QPACHSLPPDLTEPPRAQLRRPP LPHGLPACG
19496	49864	A	19611	1749	2411	APSCLVSEHSAGFPQRELQPPLL TFQAYEQILGITC/GSCP/AQGW GAWSSDAVPQLLARRPPLPHGL PACGEWGRGELGVKPSGLPSH AGPAWGHQVRTCATAHPQD CISPEGAVEEIVGG*GC/TEGQ SQRVLQIWP/SQGVSSLSALVPL NMFTELLIEYYEKIFSTPEAPG EHGLAPWEQGSRAAPLQEAVP RTQATGLTKPTLPPSLMAARR

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19497	49865	A	19612	883	2164	EHRRPMRAQASHEGHRHPMRA QMSHEGYRRPMRVQASHENTG VP*GVQASHEGTGIP*EHRCMP RTQVSHEGTGVP*ECRRPMRTQ VGPMRGTVGP*EHRCMPRGTV P*EAQASHEGHRPMRGTVGP* GAQASHEGHRCPMRGTGVP*G HRRP/DENTGVP*GHRPMPRAQ ASH/REHRC/DEGHRRSP*GHR RPMRAQASHENTGVP*GAQAS HENTGVP*GHRPMPRGTVGP*E VQGV*GHRPMPRAQVSHGHR RPMRTQASHEGHRPMPRTQAS HEGTGVP*EHRRPMRGTVGP*E FRRPMRGTVGP*GHRPMPRAQA SHENTGVP*GNR/PYHEGTGVP* ECRRPMRTQASHEGTGVP*EHR CPMRAQASHEGHRHPMSTQAS HEGHRPMPRTQASHEGHRHPM RTQASHEGTASHEGHRPMPRT QVSHEGTGVP*EFRPMP/PGH HPMRTQASHEGHRPMPRVQAS HENTGVP*GHRPMPRGTVGP*G HRCMPRGTVGP*GYRHPMRTQ ASHEGYR/PSHEGTGIP*EHRC MRTQVSHEGTGVP*ECRRPMR TQVSHEGTGVP*GHRPMPRTQ VSHERHRRPMPRTQASHEGTG P*EHRCMP/MGHRPMPRTQASH EGTVGP*EHRRPMRGTVGP*EH RRPMPRAQESHENTGVP*GAQA SHENTGVP*GHRPMPRAQASH
19498	49866	A	19613	1	552	VPQDSLQALAGQATPEIPLGL QLHTVLVQEIQLIEAQTRAPGP CAEVRLPAPAAEPAPAWEEAP PERALELEGAPAKDQTNELPEI TA/PYC/EPLALTLKAWLERE VGGRGIDQHSPSQQLPCCP*SW ARWQTCRQRAGHLA WPPVPRC REASLIH*NHSPAAAGPFILLILV YLCAGGA
19499	49867	A	19614	443	991	VDSRPMNLNRLMRTSGRRWTP RPQVDTRP*VNNKTQ*AIRPQ/C GYSPQVPQDSLQALAGQATP EIPLGLQLHTVLVQEIQLIEAQ TDTCWSMCRSKSTASTSRWS Q/RPAWEEAPPER/GTAGGSSS QGPDRGAA*NHGGAGEH*KK AGRKSSERYACSRQPPPPGM DAGPQLGIQAVCP
19500	49868	A	19615	16	450	

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19501	49869	A	19616	2	477	PRVSRGHSMDMRVPAQLLGLL LLWLRGANDIQVTQSPDSL SVGDKVTITCRASQGISNGLSW YQQKPGQAPTLLIYAASSLQSG VPSRFGSGSGTDFLTITSLQPE DVATYYCLQDYTTPTFTVLQAIT KTPQR/IDV*VCTVLATPPGVIN WL
19502	49870	A	19617	2	675	LPLSSSALPTESGSHLPFSGIMA RPSDPLVKPQRSSKREPCKVHP GTQSDRIYVKIKR/NWAENPRG/ IDNMRVR/RRFKGQDLDAPTLG YGSNKKTKAHACPSGFREVPG VHNVQGSWEVACLMLQQLY CCRGSVHNVFLPRNRQSPSWG KELAQGLSGVHPTPLARAAQL KEN*VRQLMCNKSYCAEIAHN VSSKNRKAIVERAAQLAIRVTN PNAR/SEENE
19503	49871	A	19618	2	527	VWAANMPSRLRKT/RKLT/GHG AATGHGPHRPSTRKAPPGGPR* MPGGPAIHPPGSNFRQNTHPQA YFGK/VG**KHYPT*KRN/QSFL PPTVNL/DKLWTLVQ*NRHRVK CLPKNKTGAAPHHMLMLVRS GYLQSSGERGKLPKASLFFVEGPK FFSRRLREEGLRGVWGGPVSL
19504	49872	A	19619	45	233	
19505	49873	C	19620	95	154	
19506	49874	A	19621	2	241	
19507	49875	A	19622	63	320	RQWGNRLVTA/WSFFSWLSDC EGPGYGTIAEVGQLWGIMAKD LLRHSLASEELALNQLTCHDQ FAQSTRSSARACGSIFCSTTQGS
19508	49876	A	19623	2309	2560	RNREARFYMTTPNFETETKR/WF HERVICALEREREREVTKISRL E/RDNHRLVGDISQLKKELDQYL QAISLDEDCNGKRLLQILEA

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19509	49877	A	19624	4994	7008	QWQQPKLTNDNLKFIWNQKR DRIAKTILSQKNKAGGITLPDFK L YYKATVTKTA WY WYQNRHI DQWNRTEPSETIPHIYNHLNFD KPDKNKKWKGDSL FNKWCWE NWLAI CRKLKLD PFLTPYTKIN SRWIKHLNVRPKTIKILEENLGN TIQDIGMGKDFMTKTPKAIATK PN*QMGSNILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPVISAQNLKLS NFSKVS GYKIN VQKSQAFLYTN NRQTESQIMSELPFTIASKRKY LGIQLTRDV KDLFKENYKPLK EIKEDTNKWKNNMPCSWVGRINI VKMAILPKVIYRFNAIPKLPMA FFTELEKTTLKF IWNQKRARIA KSILSQKNKAGGITLPNFELYY KATVTKTA WY WYQNR YIDQW NRTEPSETIPHIYNLIFDKPGK NKQWKGDSL FNKWCWENWLA ICRKLQLD PFLTPYTKINSRWIK DLNVRPKTIKLEEDLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR OPTKWEKIFATYSFDKGLISRIY NELQQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKKYS SSLAIREMQIKTTMRYHLTPVR MATIKNSGNNRQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19510	49878	A	19625	1	764	GSSEKRRKFKTGNQKLSMEVEK NQQMRSLSLYQQRVEGSKCAV RRKGGSPKPKAFLAAAEKFLN VPVMRSASHEQLVLTGDPNKT LPGKSRLSGTDSPRACSTFPJW ATKJVTEMQVQLFAACRVQLIK HPRPSAARTAMEVLESGEQGV LQWDRKLSELSEPGDGEALMY HTACQGHEEQVWEEALQLGL RSGILLNHWKRQLVGGAGILRS AQLHSPYHHWMISLVSPSPAV MAVMENDDICMVLVCVKVMDE PNHILDAISEHQIPSLEDQWFSE CALWTSKAYENLVERHILGPHC RPTELETLGISEDDIDHNPYLDF PGVAGLGSRRNVKERGWLSEM KKEGDIFMKIQG*AICPTSGPAE GLPPPTPVPHVPDRPCGT*GP/PP SPGSDSSVPACGPTAARAPRSP APPWRCGPRWAEDVLLTGLCK QQIAEPAFRLQFWWPI

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19511	49879	A	19626	1	1430	MNGTAEGQHPVWHSTFNGEPQ SLSSSVRVKNQGRDQAEIGFQ GNGSTVPAAQARTIARARGSGS GGGDALQGGGAGAGPGATKR TARLLARGLRRALRPDGRGV LGAGAGSSQRRGGRRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVMWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAFV QEIGSLRALNLCLKQITDSSLG RIAQYLKGLVLELGGCSNITN TGLLLIAWGLQRLKSLNLRSCR HLSDVGIGHLAGMTRSAEGLP GPGAHAHATGLPEAHRSFSKAHL PRADGPEAPQPQLLWGNLGRW PPAPVAHQPAHAQPCAPCDNI SDTGIMHLAMGSLRLSGLDVSF CDKVGDDQSLAYIAQGLDGLKS LSLCS/RRGLRRAALRPDGRGV LGAGAGSSQRRGGRRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKSVMWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAF/R AGDRLPARSQPEPLQADH*QQP GPHSPVPQGP/ARCWSWEVAAT SPTLAFCSPPGVCSASRALTSAA AATFRMWDRAPGRHDAQRGG GLPGPGAHAHATGLPEAHRSFS
19512	49880	A	19627	293	1520	TTMDGSHSAALKLQQLPPTSSS SAVSEASFYKENLIGALLAIFG HLVVSIALNLQKYCHIRLAGSK DPRAYFKTKTWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVS VIASAIIGHIFIKEKWPKDFLRR YVLSFVGCGLAVRG/TYLLVTF APNSHEKMTGENVTRHLVSWP FLLYMLVEIILFCLLLYFYKEKN ANNIVVILLVALLGSMVTVTV KAVAGMLVLSIQGNLQLDYPIF YVMFVCMVATAVYQAAFLSQ ASQMYDSSLIASVGYLSTTIAIT AGAIFYLDFIGEDVLHICMFAL GCILIAFLGVFLITRNRKKPIPEP YISMDAMPGMQNMHDKGMTV QPELKASFSYGALENNDNISEIY APATLPVMQEEHGSRSASGVYP RVLEHTKKE

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19513	49881	A	19628	751	2034	VSSPTSLGCMRQKEYRIPKLL TNMPFLGSPSLLALRSCHPTG RTCSA/SQVALFCLAAHRVSQIG ALLAIFGHLVVSIALNLQVSFHI RLAGSKDPRAYFKTKTWLGL FLMLLGELGVFASYAFAPLSLI VPLSAVSVIGKTIIGHIFKEKWK PKDFLSKFVLSFVGCGLAVVGT YLLVTFAPNSHEKMTGENVTR HLVSWIILFCLLYFYKEKNAN NIVVILLVALLGKLTVVTVKA VAGMLVLSIQGNLQLDYPIFYV MFVCMVATAVYQAA*VSQAS QMYDSSLIASVGYILSTTIAITA GKGFYLDFIGEDVLHICMFALG *VLAFLGVFLITRNRRKKPIPFEP YISMDAMPKGVNMHDKGMTV QPELKASFSYGALENNNDISEIY APATLPVMQEEHGSRSASGVY
19514	49882	A	19629	19	933	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFNFPLPIHTQPSAH KDMTTNAGLPHYPWPQH/LRL DNFVPMNDRPTWAYTGLGLFSV TGLRSWTTWAVVQGRAPGLA PIGDFGRATVPCCVWLQWCGFI HLVIEGLVPFSNYERPFCGDQSL LYSQLWKEYGQGETARYILGV TNFTVICM/ETITSFA/WGEPFSL WVVIVFLLQHPLARFILQLVVS VGQIYGDVLYFL*RATPTDFQ HGKPGPTPLLLPGFSVFHEMP LWLVPAPGSPCLCLDA/V*KHPQ LMPQSNAWNAGKPKPKSKK
19515	49883	C	19630	113	257	
19516	49884	A	19631	143	330	HHGPVFPFRGLIS*HSLHCPCPT PGGKNVFFFCFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
19517	49885	A	19632	3	432	
19518	49886	C	19633	112	192	
19519	49887	A	19634	1	4410	MARPLALPLTGMSAPGSSLTITP HTPSHPRSPSTPDTVSHPRSPSTP DTVSHPRSRYPDTVPPTLPVY TRHRVPPTLPVYTRHRPTHAPG IHQTMCTPHAPGLHQTPTCPHTA AGLHQTTPSHPRSPSTPDTVSHPR SRSTPDTVPPTLPVYTRHRVPPT LTVYTRHRVPPTLPVYTRHCPT HAPGLHQTMCPTPRSRSLPDTV PPTLPVYTRHRVPPTLPVYTRD RVPTLPVYTRHRPTHAPRLHQ TPSHPRSR

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19520	49888	A	19635	1	444	
19521	49889	A	19636	3	1017	SSRPVPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQKGLKDGTILACTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIKAMVSYGMNP\VDLFEAN DLFESGNMTQVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIGL QMGTKNKCAQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCAQVG\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQ\M GYTQGAQTQSGQVF\GPRPDI *TPSTCQGTIADGAPSGTG\DA CPDPGEVPEYPPYYQ\EEAGY
19522	49890	A	19637	1	479	MQGLRVSHSTFYTLIPEVTENP HRLDFHWFLSAQLERVASGTL KKKESPPRPKVLGSARWDLPV/ PPGW\CNSTALQ*SPRSDQV*SE RGMEAFFLPMPSVASVCCRF SPWTSQKPOLSTSRDKLQGKR *WFSTGVWAS*DHS*ERRCSQC PKTTCW
19523	49891	A	19638	2	501	FVPEERSSETALQRCSLPPGRRRA APDPGLQGLRGLSGSGSSELES RKAKLRAAEGLRRKTTTEINQRD TADRCTRGGH*SPGESPPKPSAF SL*LSVPRSGKLRFLRSPRREPA AN*SHRLRRHREKKCFHPFTL NLIASGTSLEGGGVAPTWTSTGR SQRALPSTL
19524	49892	A	19639	1	1122	RFILILNHAVFEYQDIFVASFPPI FFNIHCRGEGEREKGAGKDRT PPSTLLCGSGHLLPLASRRP PRCACCLPGGPLSSSALEAG*Y WRFPKLSG*KRSHTPWVPQPOQ PLPNPSPGKWWASSEALQ/GT RA*RGIAELTHLLRLPARRGTQ RPA\PGHRAGASQFRRREASSRG PGLRPRPGRTRELGFPKRRVWA TAASWPRGTPEPCAAA*RRRRRR RRARGRELSPRSTWSSDTESTF ALSCDPS*PRHQSVPKGRVWSC KGKLANKGFFCPTWQRPVIRVAS VDMELLHFVPKRALPGFTIAISF LSSAPPLCPWYSGSNPWLNRPL KPRLAALFQRSAAAPRLHFSGAA SLQVGERRQIRDFRVSAGA

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19525	49893	A	19640	14	618	GNENVKSGRKTSLSPFVLSDFT ASSALLASDSSRWMSLQSASEC \PGRAGSGPGYG*PVSEVTGG PLSAHTHSSL*TSQRCGCPGPE HHGAGPFP*GPGLKDVSGRGG NGCWGRRKPAHMGGLGPAT PLQFPFRPSPPPPPLGPPQPPPP SPPLGPASSPP/CLPHRPPPPPP PSRCVTAPCVTAPGAPTAAAA RRH
19526	49894	B	19641	42	121	
19527	49895	A	19642	1	153	
19528	49896	A	19643	104	355	
19529	49897	A	19644	459	988	DPRTMNLAIISIA/LLTLVQVSR GQKVTSLTA/CLVDQSLRLDCR HENTSS/SPSKYFSLTRET/KKH \VLFGTGVPEHTVYRSRTNF/TS KYNMEGPLTYSAFH*ARTRGTL QVLQFHQFGALSPPIFLSRNV/T VVQRTNWVK/EGI/SLLAQNTS WL/LRLLS/SLLO/ATDFMSL
19530	49898	A	19645	1	950	
19531	49899	B	19646	55	1459	
19532	49900	A	19647	1	165	
19533	49901	A	19648	183	700	PNGNQPPRETQRI/SGIQR/LGT AVASSGGSRSLPRSAEPAQG AAARRA/PGAGRCRAARGAG AGSARRLP*APAHAPPEQGRR/ SRTARSR/AAQPPPPSQPSQPL GPRPSQGA/PQRRGPSSPGPRAG CRAQ*EALTPRLWRSSRTSSR GLGPHVRRGGFSPKIPT
19534	49902	B	19649	71	264	
19535	49903	A	19650	3	810	GVSPCWPGWSRTPDFGSPKCP PIRASPAGELQALSSTVTTPYW GILVTA/VFPH*GLRPRQCRQDH PAGRQGP/PGPEVPEILGQSGCT DRTWSKAGGRTQAPGPRSRAG RRVSGQEIRAPGLGCRHGG/V GAPWTP/EAASPLTATEPSPH/L QAPCGY/MLSVSPRRRYRGA GDQKV/KMLKFA/CLDYWQF LCLQPLHGAYKRDS/DMTWIW GLLPEVTGAAGT/SPNVHTSGR FFRACVFCPVHTLVKKEPHPGQ QEIHMEPSWSP

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19536	49904	A	19651	258	1378	REILSLDRLPGATPNQALSAEA ACPKGQTSLLCGAMGIQGLAK LIADVAPSAIRENDIKSYFGRK VAIDASMSIYHFLIAVRQGGDV LQNEEGETTSHLMGMFYRTIR MKIENGKPI/YKSGELAKCSEL RAEAEKQLQQAQAAGAEQVV EKFTKWLVKVTQHNDKCKH LLSLMGIPYLDAPIEAEASCAAL VKAGKVPVATEDMDCFTFGS PVLMQHLTASSDYCKSIWSIGP KRAVDLIQKHKSIEEIVQRLDPN KYPLPENRLHKEAYQLFLEPEV LGPESVELKWSPENEELVKFV CGEKQFSEERIHSQVKKRLRTEK GGGEPRGP/DWTQPGRASPTKR PDHQEDQHTRSRSSESGH*GWL
19537	49905	A	19652	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGPACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK/T LNNKFASSIDKVQFLEQQNKML ET/ESYNSLKQQLTGLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEIEIKLQSQILDTSVVLC MNNSHSLDMSHAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLEGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSSESDVLPK

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19538	49906	A	19653	1040	2322	LPACPPASTPASTMSIMVTQKS YKYST/SRWSSGPQAFGNC SYA RGP GACISLSFSRVGSSIFRGVL GGSYGGASGMSGITAVTVNQS LLSPLNLEVEPNIAVCTQEKYT LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQLETLGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEIQLKLSQILDTSVVLG MNNSHSLDMDIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQSL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSESSDVLPK
19539	49907	A	19654	152	207	
19540	49908	B	19655	75	402	
19541	49909	B	19656	1	2319	
19542	49910	B	19657	1	1341	
19543	49911	A	19658	198	1118	LHAPNSLHHHLPRDLL*LLPLPL QHRVSDPGLHSALRPMEHRA QS*QPSAPEDAVQA*WGHGGH SPGPDRA GCHHCRGDQERVST HHVLPVCHHPDDAYGGCGAG WNPDL/PQGMRSWMSPKIRPA NWTRTSWWALPQAPGLSPGAQ SWPSFVPRTPPTTPTGTCTPTPSW *SWRSTSRSTSSLNPFTESLKNS LRTSKPFGWSQSAMATPCLLP PASRVELWPETWPLGQGHATS SQWKCVPERKL*QGGEAGGEQ LGREPKSPSPSFLTGQRQEKSP EEYCSLLVPLQYFGSRGTHADL LHG

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19544	49912	A	19659	1	2707	MPGPHPASASCPPRLFTPRRRAF CPLRICAPLAAAAFCPPRFLPHT RRRAFLLLCRRGFLPPCLGGG LAAAFPHPLPFLRPHRRGFLP HRRRGFLPRLGFLPAAAFYPP PPRVFARRGFVPPSPRLFARRA FCHTPPAAAFSPSAAAFACPTA DTAFCTLAALAFRRGFLPPRC RGFLPLRHRSLPHRRRGFLPT AAFCHRGFLATAFYPPRLFAP RCHGFLPPCRSDFFAAAAFPCR RRGFLPSPLFAPAAVAFCPRH RGFLPLRLFAPVTAAFCHRDfL PPPPRIFVPAATALRAGAADS ASSTGVLAARALRGPCGLHRV ALPVEAMGEKKEGGGGDAA ATEGGTGAASRALQCGQLQ KLIVIFIGSLCGLCTKCAVNDL TQQEIQTPPAKPAKPAQSTRQ PSQPSHPASQASQTSQPAKQPA SQASQPAKPAKPPSQPSQPSHR ASQASQATQPERPASQPASEPS QPSLPASQASQDRQPAKPAKPD SHPRQPSQP/YQPSQASQASQA SQPAKPSRQPSQPRQPSQLASQ ASQSTQPLKPAKSPVQQSQPSQ PASPDQSASQASQATQPAKPAK PPSQAAQPAKPAKPPSQACQP PSQRAKPAKPARQPSQPSQSSPP ASQPSQACQPSQPGSQASQASQ AAKPGMPAKPARQPSQPSQPAS QARHASQAIQPAKPAQ*PSQTS

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19545	49913	A	19660	1223	2286	RQCFKATEQPPAIHHPSSQPSRQ PSSQPPIYSPICGRKSGIQPKFQ LNG*MVNG*MDEISRERHEWP CNYQVRPKAGEKQPGAEANRE TRPEGGTP/RGERGRQGPATRR QKSTPEAGPSDLEKQIARQEAP AGTDEIERQQARPH*AP*KIPVE WVNGEWLNGRMPGDPHEWQC NYQPAIQPAIQPANQLSIHNLW TQFRHSTKIPVEWVNGEWLNG RMPGKHHEWQCNYQPAIQPAI QPAQLSIHNLWTQFRHSTKIP VEWVNGEWLNGRMPEDHHEW QCNYQPAIQPAIQPASQLSIH MWTFQRHSGQIPVEWVNGSRL HGRQQGIFMHGNATSSHSPSIQ PAIQPAIQPANQLSIHNLWTQFR HSTKIPVEWVNGEWLNGRMRQ NIMNGNATISHSPSIQPAIQPAIQ PVNLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPGKNHEW QCNYQPAIQPAIQPANQLSIHNL WTQFRHSTKIPVEWVNGEWLN GRMPGDHHEWQCNYQIAPML QSNRTAAASHSPSIQPAIQAAIQS ATHLSIPNLWTQVRHSTKIPVE WVNGEWLNGRMPGRDMNGH ATIRYGPKEKNRAPRQTEKQ GQKGAHQRRREGKARAGNEETE KYRSRAIRPRKTDASRSSRGH RRNRKAASAATLGPIEDTNQNK LHVRDTGLEVKAIISIQPGTLM
19546	49914	A	19661	39	599	GASPNQGNRPHARQAPPPQ/G /PPGEPERRAPLPSGHGEPCHRR PPPPFPQP/AGTQKPLLQPGGG *PAENAPTAALGSPAPPRGCQA APPPRSAGRPDLPTLAGPRPAP A\PPPSA\PPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPFAQIAGHQVGP RRRTTP AGRKPRSPAGPR
19547	49915	A	19662	39	599	GASPNQGNRPHARQAPPPQ/G /PPGEPERRAPLPSGHGEPCHRR PPPPFPQP/AGTQKPLLQPGGG *PAENAPTAALGSPAPPRGCQA APPPRSAGRPDLPTLAGPRPAP A\PPPSA\PPPPPSGAPSR/PAAG RQRLSGVSSGPSLGWW*VGRG RGLPFAQIAGHQVGP RRRTTP AGRKPRSPAGPR

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19548	49916	A	19663	1	379	YFPHTAIRYPPLHNRQDPLKDL VSLACDPASQQPGPLNGSGQLK MPSHCLSAQMLAPPPGLPRLA LPPATKAATTSEGGATSPSP/S PGIWDSKGLLPSPLLHRRPNR GQHSRPPAHVFGGKLE
19549	49917	A	19664	3	285	
19550	49918	A	19665	2	1556	RLEFPGRRFRSAPAPAGPAPPA APGMYSSPLCLTQDEFHPFIEAL LPHVRAFAAYTWFNLQARKRKY FKKHEKRMSKDEERAVKDELL GEKPEVKQKWASRLAKLRKD IRPECREDFVLSITGKKAPGCVL SNPDQKGKMRIDCLRQADKV WRDLVMVILFKGIPLESTDGE RLVKAACQGHVLCVQPHHIG VAVKELDLVLAIFYRERDAEQ SGSPRTGMGSDQEDSKPITLVT TDFQESFVTSQVFSVTELIQVSR TPVVTGTGPNFSLGELQGHLAY DLNPASTGLRRTLPTSSSSGSKR HKSGSMEEDVDTSPGGDYYS PSSPTSSRNWTEDEGGISSPV KKTEMKSPFNSPSPQDSPRLSS FTQHHRPVIAVHSGIARSPHPS ALHFPTTSILPQTASTYFPHTAIR YPPHLNPQDPLKDLVSLACDPA SQQPGPSWYLG*QRSSSLAPSPS SQESQGAAPAGPRFRWKIRV NKNTPADSQPGQKDKTHRRTH SGGKEKTKAE
19551	49919	A	19666	1	477	
19552	49920	A	19667	1	440	WTQDM/EGGISS/PVKKTEMAK SPFNSPSPQDSPRLSSFTQHHRP VIAVHSGIARSPHPSALHFPTT SILPQTASTYFPHTAIR/YPPHL NPQDPLKDLVSLACDP/SSQQP GP/SYSPPDTPANR/SFVGLGPR DPAGIYQAQSWYLG

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19553	49921	A	19668	2	1963	CPTGFEHGSPCARRTPTGRVSV TRCRRRAWGSLRVSVCGPRAQ LQAEVLQEEQGGVLCVIVMP LTPGRTPLRPRGRALCNGRGGV WGGGSGPRGLLPAQAPGDPEV CKFRFLDRCFPPYAGPSDL.SLR GRAVGPPSASLALL.TSRL.SGLQ DEFHPFIEALLPHVRAFAYTWF NLQARKRKYFKKHEKRMSKDE ERAVKDELLGEKPEVKQKWAS RL.LAKLRKDIRPECREDFV.LSIT GKKAPGCVLSNP.DQKGKMRRI D.CFRQADK.VWRDL.VMVILF KGIPLESTDGERLV.KAAQCGHP VL.CALKPQHIG.VAVK/ENLDL YLAYFVRERDA*QSGSPRTGM GSDQEDSKPITLDTTDFQESFVT SGVFSVTIELIQVSRTPVVTGTGP NFS.LGELHAHLAYDLK.PASAGL TRTLSTSFSSGNKRYKAGSMEE YVDSTPWGDD*T*PSSPTSSSRN WTE.DMEGGISSPVKKTEM.DKS PFNSPSPQDSPRL.SSFTQHHRPVI AVHSGIARSPHPSSALHFPTVTSI LTPDGPSPPTFPHTAIRYPH.LNP QDPLKDL.VSLACDPA/SQQP.GP LNGSGQLKMPHCLSAQMLAP PPPG.LPRLALPPATKPATTSE GATSP.TSPSYSPD.TSPANRSFV GLGPRDPAGIYQAQSWYLG
19554	49922	A	19669	332	551	ESWLGRGHQPPPGLFHSPKPS SGTAVLPAWRPPSPGPGAGDD ASPS*AGPGAGANPGA*QRS ASGEKGS
19555	49923	A	19670	1614	1673	
19556	49924	A	19671	72	227	EEFPMGHTA*WSCEKRATILQI QEW*IQQLAPCAWQSHRHST RAHESSHG
19557	49925	C	19672	1	604	
19558	49926	A	19673	653	889	VYPQT.NWKQNTGTRVFIAALF TMVAKGENK*PSMGEWIKQM WSIHTMERHAAIKRIEAQVYAT M*MKLKSMILLERNQT

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19559	49927	A	19674	75	1619	EVSIQAQTMTWTADEIAQLCYEH YGIURLPKKGKPEPSHEWTLA AVVKIQSPA\DKACD\TPDKPVQ VTKEVVSMTGTGKICIGQSK/M* RKNGDIL\NDSHA\EVIA\RRSFQ RYLLHQLQLAATLKEDSIFVPG TQKGVWKLRRD\LINVFFSSHT PCGDASIIPMLEFEDQPCCPVFR NWNANSSVEASSNI.EAPGNER KCEDPDSPVTKKMRLEPGTAA REVNTGAAHHQSFGKQKSGPIS PGIHSCDLTVEGLATVTRIPGS AKVTDVYRTGAKCVPGEAGDS GKPGA\AFHQV\LLRVKPGRG DRTRSMSCSDKMAR\WTVLGC QGALLMHLLEPIYLSAVVIGK CPYSQEAMQ\RA\LIGRCQKVIS AL.PKGFVQVELKIL.QSDLLFEQ SRSAVQAKRADSPGRLVPCGVA AISWSAVPEQPLDVTANGFPQG TTKKTIGSLQARSQISKVELFRS FQKLLSRIARDK\WPHSLRVQKL DTYQEYKEAASSYQEA\WSTLR KQVFGSWIRNPPDYHQFK
19560	49928	C	19675	45	140	
19561	49929	A	19676	3	354	AKIKTGYK\REHINLGCDMDFDI VGPSIRGALVLGYEGWLAGYQ MNFETAKSRVTQSNFAVGYKT DEFQLHTN\LLNLERTCFLTG PTPTPPPLSWLPGTTFSLTWAM TGRYTINSQ
19562	49930	A	19677	1	983	AARSAPLPGSAPCLRVAAPAVA ASEPAATSSSEQKMAVPPTYADL GKSARDVFTKGYGFLIKLDLK TKSENGLEFTSSGSANTETTKV TGSLETKYRWTEYGLTFTTEKW NTDNTLGTETV\EDQLARGT* SLTFDSSFSPNT\GKKNAKIKT GYKREHINLGCDMDFDIAGPSI RGALVLGYEGWLAGYQMNF* DCKIPE*PQSNFWQLANKT\DEF QASR*M*ND\GTEFGSGSIYQKV NKK\LETA\VNLPWTA\GNSNTR FEIAAKYQ\WDP\DACFSGKVNN SSLIGLGYTQTLPKGIKLTLSAL LDGKNVNA\GGHKL\GLGLEF QA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19563	49931	A	19678	551	831	CHPSSHVLCAPASLSDHQWPP ALCPSSRPQ/PCALPWSGT.LSSR PQPCPTHFSGIEA*LCLPLVTLQ G*LPLPAPQHLVPPCPSTCTPTM LKL
19564	49932	A	19679	47	980	VCQYCTARMADFGISAGQFVA VVWDKSSPVEALKGLVDKLLQA LTGNEGRVSVENIKQLQLCLVP GSTTLHSA/EILAEIARILRPGG CLFLKEPVETAVDNNSKVKTAS KL/CSALTLS/SLVEEKELQREP LTPEEVQSVREHLGHESDNLLF VQITGKKPNFEVGSSMQLKLSI TKKSSPSVKPAVDPAAAKLWT LSANDMEDDSMDLIDSDELLDP EDLKKPDPASLRA/ASCGEGKK RKACKNCTCGLAEEL/EKEKSR EQMSSQPKSA/CGNCYRGAMPS GCASCPYLGMPAFKPGKVL DSNLHDA
19565	49933	A	19680	29	1270	FPFWPAVFQVCYCTARMADF GISAGQFVA/VVWDKSSPVEAL KGLVDKLLQAF/TPGNEGRVSV ENIKAAVAAILPTKNPSFGHYFV Q/CLVP GKAPLWHS A*DFWAG NPPGFLRPGWMFFFLKEPVETA VR*Q*AKWKTASKL/CSALTLS GLV/EKLKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPN FEVGSSRQLKLSITKKSSPSVKP A VDPAAAKL/WTLSANDMEDD SMCFCGCSLTHRWPLEHVQV E/IMMDQPKRTRVDTVFTPT PKFPSRSPASHFSFSIKQKT/TRP VSLIALNTL/QDLIDSDELDP DLKKPDPSSLRA/ASCGEGKKR KACKNCTCGLAEEL/EKEKSR QMSSQPKSACGNCYLGD AFRC ASCPYLGMPAFKPGKVL LSD
19566	49934	A	19681	3	405	QDFGTRALAAVQIKNGGSWWC PPVSLAAGVGRPQLGRPYVRV APHGQVGLSFAMWKTLTFFR GASPGVGSQAMLCVA*SPHH WRARRDPEFIAYPHLR/IRTKP FPWGDGNHTQYITPHVNPLS NLATED

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19567	49935	A	19682	2	450	VNKAGGLIYQLDSYAP/RAEE KTFSYPLDLLKLHDERVLVAF GQRDGRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPNYP VSIRFGRPRLTSEKMLASMF HSIKFVVLADP/RQAGIDSLLRK IYEIYSDFALKNPFSYLEMP
19568	49936	A	19683	1	2034	
19569	49937	A	19684	202	453	RRLWRGSCPRCGGKARDGMG VRGR/YSEG/REKV*FGGPPRGS TWPLCGRWRPAPPSAPLRWS AMCPNTSDAAGACAAVRCG
19570	49938	A	19685	269	326	
19571	49939	B	19686	98	562	
19572	49940	A	19687	1	2223	
19573	49941	A	19688	374	1107	IPVSRQGSQDWRFSSVYVVKNA GGLIYQLDSYAPTGLRLEKTFAS YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVLAINGMDVNG RYTADGKEVLEYLG*PLLNYP VSIRFGRPRLTSEKMLMLGLP CFHSLFAIGSQACLPGTREASR HLKILGRQDTFKLHVCYQTLTG IKFVVLADP/RQAGIDSLLRKI YEIYSDFALKNPFSYLEMP IRCELFDQNLKLALEVAEKAGTF
19574	49942	A	19689	119	288	ALHLNSSDVHQKLLPVQSLKKS *GRHRNNTCNQVRVHA/SSTSRE FFTCLNKNDILKP
19575	49943	A	19690	92	317	KSVGPVNFLPSPGNMNEKN*M H*HPFSSVTQAFRLRVLQSIQR PL*TFNPSSSLFSSISGQSNFPL GVAVLRP
19576	49944	A	19691	27	389	NFKTLKNN*YK*MCSQEIKLS *KLIRFWYIEHAFFPWAHGVVF CVAQEFCPLPTVLLPVPRLLIM KDMVRRLQELRHTEQVQRAYA LNCGEATVSYEIQIRVLRFGFL ADAAAEELLQN

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19577	49945	A	19692	313	2255	KTPQVQQPFPRQTGAAGAGAP SGRSGERAAGRAGPSGGSGGG QDSAHAGEAYVRGILLRKTFTQ CLKDYFLTYTSSKVVPVKVPC RQVLTDKCSLPRSSHRNARTV SNDFPRKSCSRERCTHCMRPPE GRRPPNGNMNSWKWPSGDESK WRRGEPGAVPEPEPLTGEERAA AAAVGGGWPGVLAPVRTAVL VAAAAEATAAVPAAAAAAGG ASGHCNHPVMQGRNLSHRFLL PLHSPYQFGTSSYSQQGYGCE SKLYSLDHGHEKPDKKKRTS GLATLKKKFIKRRKSNRSADHA KQMRRELLSGWDVRDYNALVE EYEGTSALKELSLQASLARPEA RTLQKDMADLYEYKYCTDVDL IFQETCFPVHRAJLAARCPFFK/I TAFFLTRVWGRDNNGHQYSW Y*YAHVFCFVTLPLYRRVWEW EDSRFQNVLDLVQLSEGIWEHQI PLM*DMRGTLI/DMCYDYDVVL SFSSDSELVEAFGGNQNCLEDE LKAHKAVISARSPFFRNLLQRR RTGEEITDRTLRTPTRIILDESIIP KKYATVILHMYTDVVDLSVL HCSPSVGSLSVQALVAGKPN MTRAEEAMELYHIALFLFENM LAQGSCWECIPNDEANQEQRS EGSRKWAPTREGSKGRSHASA
19578	49946	B	19693	4	3923	

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19579	49947	A	19694	1	2154	MEYYAAMKTKEIMSFALTWIE LEAIVLCELTHVLSSELMQKQKT KYHMLSLGSPVPTFALWNFDV AQDFHHFIENARSSQCRGRPRM TGAGAGAPSGRSGERAAGRAG PSGGSGGGQDSAHAGEAYRVR GILLRKTQCLKDYFLTYYTSS KVVPVKVPCRQVLTIDKCSLPR SSHRNARTVSNDFPRKSCSRER CTHCMRPPEGRPPNGNMNSW KWPSGDESKWRRGEPGAVPEP EPLTGEERAAAAAAGGGWPGV LAPVRTAVLVAAAAEATAAVP AAAAAGGASGHCHNPVMQG RNLSHRFLPLHHSPYQFGTSS YSQQGYGCESKLYSLDHGHEK PQDKKKRTSLATLKKKFIKRR KSNRSADHAKQMRLLSGWD VRDVNALVEEYEGTSALKELSL QASLARPEARTLQKDMADLYE YKYCTDVLIFQETCFPVHRAI LAARCPFFK/ITAFFLTRVWGRD NNGHQYSWY*YAHVFCVTLPL LYRRVWAKEDSRFQNVDLVQL SEFGTPNSLDVDMRGLFDYM CYDDVVLFSFSDSELVEAFGGN QNCLDEELKAHKAVISARSPPF RNLLQRRIRTGEEIDRTLRTPT RIILDESIIPKKYATVILHMYTD VVDLSVLHCSPSVGLSEVQAL VAGKPNMTRAEEAMELYHIAL FLEFNMLAQGSCWECIPPNDIA
19580	49948	A	19695	1	163	
19581	49949	A	19696	1	207	
19582	49950	A	19697	1	579	PTRPGQAGSSSAMAQRLAKR VL/SKLQSPSRARG/PCAGSPGG LQK/RGHARVTVKYDRPSLQR RLDVEKWIDGPLEGLYRR/QEA D/MPMRSNIDELLE/LESEEEERS RKIQGV/LRDS*KSCGKPVEDFI QELLAKLQGLHRQ/PGLRQPSPS HDGSLSP/LQDRARTASPLTLA LFPGPERRPALLCVLSICI
19583	49951	A	19698	2	151	PPSPPLPPPLPAPSLPLSLPSF DLQPPVLDLTGV/LF*LCRKKI SVS
19584	49952	A	19699	2	310	

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19585	49953	A	19700	1	688	LTWMTERVDFDTALLPLEPLPP GTLPPQSPPTPPDEAMASLLKK ELEQMEDFFLDAPLLPPSPPL PPPLPPAPSLPLSLPSFDLPQP VLDTLDLAIVCRNEAGQEV GMPLPPPPQAPSFLPPQPSR WGPLTHIPGQPTRGGPAKQKEE RPRNKSAALKVTPSGKRARG*S PWRAKSGLEGTEFASLKERA\ ESVEREIYVKDILLIEVYKARS QRTSC
19586	49954	A	19701	3	902	AAMATPARPGEAEDAERPLQ DEPAAAAAGPGKGRFLVRICFQ GDEGACPTRDFVVGALILRSIG MDPSDIYAVIQIPGSREFDVSR SAEKLALFLRVYEEKREQEDC WETFGGAGGEASPA*RRSSSSS GTRRWTRWTL*LGSSATATCW PCGESDRQVLDLD/LGSTNARS SCARGRAGSGTCQGPSSWGPR G/CYSWYKGPCTCFKCGSRTH MSGSCQDRCFRCEEGHLSPY CRKGIVCNLCGRGHAFACQP KAVHNSVAAQLTGVAGHLNTR LPARVNTQASLLKCKPLFF
19587	49955	A	19702	1359	1981	QSPFNDTLPGVPVSA*LHSLPPE HHPSKG*GVAKSPVPYPAGILL VCNNCAAYRKLLAQTPSVRK WALRRQNEPLEVRLQRLERER TA/KKSRRDNETPEEREETDEQ RARRLQRDREAMRLKRANETP EKRQARLIREREAKRLKRLLEK MD/MMLRAQFGQDPSAMAAL AAEMNFFQLPVINGVELDSQLL GKMAFEVQNSSSLH
19588	49956	A	19703	1	1875	

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19589	49957	A	19704	1	673	MSAKDGTCTLQDCMYKDVQK DWPGYSEGQQLLKRVLVRAH NTQRQRQNERSDTRPCQRAAP RRFSHGTRRGTLPLASPDRAARA PRTGHCRTQRRDLRTGGGFPL TGAWAMLADWIHEGTPSRGRS DNDEPSAGSVGGLRQHGPGR APKLTTTKVKALASPVLGQKIA ALCLGLTAQGLNIMDNPGSLAI HVHPDSVLTTRKTNPCTHIWGFT QREPLVANMSAKDGTCTLQD CMYKDVQKDWPGYSEGQQLL LKRVLVRAHNTQRQRQNERSD TRPCQRAAPRRFSHGTRRGTLPL LASPDRAAPRTGHCRTQRRDL RTGGGFPLTGAWAMLADWIIH EGTPSRGRSDNDEPSAGSVGGL R/HAWPRTKSPKANNH*SESTG QPGAGPKNCSPVLGAYSPGPQH HGQPLPGHTCP/SRTQC*PGRP TPAPTSVSLRGNPLWWPT
19590	49958	A	19705	1088	2273	SPCLLTGGHLPADTSYRRAPAG IWQVPLWDEASQRKE*YQHQQ KKMSTQKPHPKDHNSSPAREQ/ SSMENKFHELTEVGFRKITSLE KNINDLMELKNTARELREAYTS IKSRIDQAKESIEIEDQLNEIKC EDKVREKRMKSNKQNFQEIWD YVKRPNLRLTGVPESDRENGTK LENTLQEIHQENFPNLAQANIQ IQEIQRATAQRQSSSRATPIHIVR FAKFEIKEKMLRAAREKDISM QKINKDIQDFNTVLQVDLIHV YRTVHPKSSEYTFFSAPHHTYC KTGHIIGSKTLLSKCKRMEIITN TLDYSIAIKLELRICKLTQNHHT TWKVNLTLLVNEY

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19591	49959	A	19706	318	873	AYELTPEPSPLPVFPVSADGTT HPLADKRKASPVPEQHEEHLPA RPVTQRCLTYPPNITTASEFGP ATGFRARRSGRGSTVCCNPGCY PRARPEPEPRGTPPSVSAPRAAQ EAPARQRAVGPVLADTV/SPAP RGKRDISPLFGNAHSAPKPSLD LWAPP* AAGRGRPQQA* DVTE DTQQQQWSAMAVGGTAKWM AALGRFLVTYVEVEGVKLQTF TVTTLTQSFKYSLSKYLQQQPL LSRRTIYPTFYLLSLRLNRAFK LNAAEAKPMSSPQNVLVFLCFL SLQMAAPPRLQTKGKQAQCQS STKSTFQGRSLRGVSPTLSPTS QQPRNLDQQLASEQGEVGEAP LCAVIQGVIPVLGRSRSREEHPP VSALPGLHRKRQRDKEAGPVL ADTVPFRPHAGKGTFLRCLLET TRRAPNPRWTFGLPLRKLQGA VAHSRPEIRTHSVPNRT
19592	49960	A	19707	1	690	DQDMTSSDIPVRLLEGLWLP*IF IGTFKAFDKHMLILCDCDEF KIK*GVDCGGRRLLEDGNLSG WAKQ*SLVSMTVEGPPPKDVS QSRKP/CWRRGGPTVSQALC*IL YPSWGSHPGSCRTCWASPWG WRAIPTGEELGKGYHLLVAKIK DKGEG*FSNPVPTWPWGSSPT YGPRSTPSR*GAHKETSAN**K MPSWINDEI*PPMGMPPPGMRP PPPGMRGKCLQW

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19593	49961	A	19708	1	1348	MVFWARPTLLCAALGLGAL YTATPAPTVAKRGGQTAQALS SEGASPKPWVLRHGIEPCKQSY WEVRETEQSPGVSEKAAAPVR GLEIKLPSPWDKAPEGGGGCGH SFSRLKCSFMPVLKRAVDLPAQ RSSPANGQTACSSGLAPVLPD WEIPPSKGRQTPYATGELRLAS DGCPSGTLPEEGTDSNLCCSA SSAESNNININININKDAHGKT PSKGPOHQRSKLDKSMKTRKN HHKNAENSKNLNASSPPKDHN SSTAKEQNWTENEFDELTEVGF RRRVIANSSKLKEHVL7TQCKEA ENFEKILEELLTRITSLEKNINDL MELKNIAQEHREAYTSINSQID QAEERISEIEDKLNEIKREDKIR GKRIKRNKKSLQEIWDYVKRA NL*LIIVVPLNKITSPTSETLST STNMSRSTLSCLLSSFCSPASCT ATSAALF
19594	49962	A	19709	718	1138	GGRAAEGSQPPVAEPRCSRGAR ALPLDPTSWRQPS/APQAAP*D VELPASPSAPFAVLLSKPRLSQN KPKSPFSVASP*HGDKRQPPSRH LI*IPHLSSRAPVHS/PLGWPSNR K/HKHLRPDTAHAPAEGPLNY VRKQKQKS
19595	49963	A	19710	5	760	RAAACGGAAAPGRKRCAPGRKR CGPRRKRLGPPTLGQRPRQPS QQLRPPRRRRGSPGLPKSSPLP SSTGKTGWSTRGRSVRPPVITS RCCPPGHPCSRRAPSCSTARAPLP PT*PPTTAPCRASPPAPRPPRRPR PPPGTRSPTRSGRCRWTRSGAG TSRCSWRAGPGTAPAAAGARS RPGAPGVSAAVPCAACSWMT SAPEVRAASSPGTPSRGSGGRS HPPCSRGLPTTGATTAPAEAPG CWSCRRRS
19596	49964	B	19711	180	300	
19597	49965	A	19712	249	700	RQDPVSGGQSCPASCPSLWAA ARVWLGGQIPAPRAR*CPVCSSC PGPGAPEDTPEAGGCGCSCRC CLRTQEPAPLQPPHPPMAQTP REEVGRRGWTPGCGTDPCLW GLRLLCPLWDPHRSGRTPWAQ VQRDTTETKAQRGLVRCQRGC
19598	49966	C	19713	273	485	

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19599	49967	A	19714	35	779	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFSLPLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTIFY/KDYGDKLNMELSE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAQRWLKGGQ VYLGMPGCLPVYDALAGEFIR ASGV EARQALLKQGQDNLSV KETQKKWAEQYLIKIMGILDQ GEDFPASEMTRIARLIEKNKRSC KKAVCDFPGFGGGRVGRVNL AVSPLWNIRG
19600	49968	A	19715	2	253	
19601	49969	A	19716	494	1443	LAVPRPAYGPRSPGSLRIPVPG LHLLNLNVWSRGSAALHTKG ALPLDVTIFYKVIPIKSKFVLVK FDQYYPYGEKQDEFKRAENSA SS\DDLLVAEVGISDYGDKNLM NELS\EKYKLDKESYPVFYLF DGDFFIEPSSHYTGGSR\LGAIQ RWLKGKGVYLG DGLVCT V*LTLAGEFIR\ASGV EARQAP LEAGAQDNLSKCERRLRKKW AEQYLIKIMGILDQGEDFPAS EMTTESLGLIEKN\KMSDGKKE EL\QKSLN\ILTALPRRKGAER GAVNKA VCD FPRVWWEYGRG ELTLAVSPLWNIRG
19602	49970	A	19717	286	332	HHHHHHPHYHHHHHPHYHHHH HPQYHH\HHPHYDHHHRHQGD HHGQLQYDDDHQPQCHQHDH LRCEHQHYIQ*WLINNLRASRY KPLN\NIMLVFAAEMIVLVALGL MVVVVL ELTVVVALTMTVVVI VRMMGGDIGDDGGGGSGDDG GGGSGDDGGGVWQFFDSMS KNDSHPTTTTITPTTTTITIRA EQFTILT WKPVVSSQKNTSSFR
19603	49971	C	19718	1	546	
19604	49972	A	19719	1	90	
19605	49973	B	19720	217	951	
19606	49974	B	19721	67	1708	
19607	49975	B	19722	218	3267	

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19608	49976	A	19723	1	634	LGRLSFPRPEQPDGPHRAHPSPSP PRPRRPHARGRRGPRRRHH/YHD TGANRAPEVRPPCPES/SPVGVA AFEPNGLRGQQFSPRSPGAPKG L*PTPPSASSPKPREPSALGRPC CRCEESRFLHRNSNPRVKDSR QARGRHAEFHGRTGVFERRRS RDHLPTHFPA SVRWKELSWCA RKNGLSGLRLCHGSQHFSGYSN RKVGTESLNQVWE
19609	49977	A	19724	3	1090	
19610	49978	A	19725	1	609	
19611	49979	A	19726	23	636	FSYLPGPSHG TWGLWELQFK MRFGVCRHLMEDSMDMDVSP LR/PQNYLFSCELKADKDDHFK VDNDENEHQLSLRTPTVSLGVF EITPPVLLWLKCGSGPVHISGQ HLVAVEEDAEEDEEDVKLL RISGKTKTFMATNGKEYKHVKI SSEKSLDNKYKTRTPGFQAFGF EDLHPWPLGSAFYLSLRTVTP VFLVLRLLDFD
19612	49980	A	19727	1	830	MEDSMDMDMSPLRPQNYLFGC ELKADKDYHFKVDNDENEHQL SLRTVSLGAGAKDELHIVEAEA MNYEGSPIKVTLATLKMSVQPT VSLGGFEITPPVVLRLKCGSGPV HISGQHLVAVEEDAEEDEEEE DVNRVLFMKP/KRQGPQAYVR GFGVQLEIGSH*DPEQQF*RD SAQPSLATPSTPHLQALLCLSGQV LRLPLWGQRL*GLQGLLPQHP EEHGVHVSPGQELHHQQGDPE PLPVLPTAEVL*SGHVQGVCEK RPKQEEEGGAQARVL
19613	49981	A	19728	1	684	
19614	49982	A	19729	3	535	DSVLRGCSLEQRSFISVRLLSYL SACRHPMEDSMDMDMSPLRPQ NYLFGCELKADKDYHFKVDND ENEHQLSLRTVSLGAGAKDEL HIVEAEAMNYEGSPIKVTLATL KMSVQPTVSLGGFEITPPVVLRL LKCGSGPVHISGQHLVYRRK HQELQAMQMDCRALSTS*ASS APRPS
19615	49983	B	19730	1	2268	
19616	49984	A	19731	198	472	AHDIGCEVSPPLVLEVARDEGP AHRPRFHS*SSHCSHWGTSQRA APPCHPCIQTTW/PGAVTGLG G*PKTRSGPGKDRSSGAASSFP GGRV

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19617	49985	A	19732	92	2049	LTALPPAVSPGGHSSSSSRRTIS GIT*ELQR/LLQAVVPGPWQED VADAEECAGRCGPLMDCRAFH YNVSSHGCQLLPWTQHSPHTR LRHSGRCDLFQEKGEWGYMPT LRNGLEENFCRNPDPGDPGGPW CHTTDPAVRFQSCGIKSCRVA CVWCNGEEYRGAVDRTESGRE CQRWDLQHPHQHPFEPGKFLD QGLDDNYCRNPDGSERPWCYT TDPQIEREFCDLPRCGSEAPRQ EATSVSCFRGKGEGYRGTA TAGVPCQRWDAQIPHQHRFTPE KYACKDLRENFCRNPDGSEAP WCFTLRPGMRVGFQYQIRRCT DDVRPQDCYHGAQEYRGTVS KTRKGVQCQR/WSLE/TG*DYP ATTSLPLPRFTTSEPHAQLEE NFC/RDPDGDSDHGPWCYTMDP RTPFDYCALRRCDQVQFEKCG KRVDRLDQRCCKLRVAGGHPG NSPWTVSLRNWQQQHFCGGSL VKEQWILTARQCFSSCHMPLTG YEVWLGTLFQNPQHGEPLQR VPVAKMLCGPSGSLVLLKLE RYVDNLGGWTKCEIAGRGETK GTGNDTVLNVALLNVISNQEC NIKHRGHVRESEMCTEGLLAPV GACEGDYGGPLACFTHNCWVL KGIRIPNRVCARSRWPAVFTRV

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19618	49986	A	19733	2	2296	HSAGQSRSPSNDFFQVLRGTQLQH LLHAVVPGPWQEDVADAECA GRGCPDLLSRAFHYNVSSHGCGQ LLPWTQHSPHSRLWHSGRCDLF QEKGEWGYMPTLRNGLEENFC RNPDPGDPGPPWCHTTDPAVRF QSCGIKSCRVAACVWCNGEEY RGAVDRTESGRECQRWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPQIEREFC DLPRCGSEAQPRQEATSVSCFR GKGEYRGTTANTTTAGVPCQR WDAQIPHQRHFTPEKYAC/KVR WAGGRALGRAAAGETGGG*SR A*GWRLAG*G*VERLLRDLREN FCWNLDGSEAPWCFTLRPGTR VGFCYQIRRCTDDVVRPQDCYH GAGEQYRGTV/SKTRKGVCQ RWSAETPHKLQ*VPGAPGPAR ALTLGRHALMSGTRAWKWLRL LSLPRFRSRRLGSRLTSEPHAQ LEENFC/RDPDGDSHGPPWCYTM DPRTPFDYCALRRCADDPSPIL DPPPDQVQFEKCGKRVDRLDQ RRSKLRVAGGHPGNSPWTVSL RNR*GTTACLPQRGAEEVVSVV MPLGAGNLSLPPEVLARRWQV *HLSQESVPCPNPPLL*QQQHF CGGSLVKEQWILTARQCFSS/CE PPLCLGTQSHPTFPFPQAS*QVS LGATD*ESQMT*QSFSPSHMLPL TGYEVVLGTLFQNPQHGEPL

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19619	49987	A	19734	727	3012	PAPTHAHSAGQRSPLNDFQVLR GTELQHLHAAVVPGPWQEDVA DAEECAGRCGLMDCRAFHYN VSSHGCQLLPWTQHSPIHLRR SGRCDLFQKKDYVRTCIMNNG VGyrgtmattvvgglpcqaws HKFPNDHKYTPTLRNGLEENFC RNPDPGDPGGPWCYTTPDAVRF QSCGIKSCREAAACVWCNGEY RGAVDRITESGRECORWDLQHP HQHPFEPGKFLDQGLDDNYCR NPDGSERPWCYTTPDQIEREFC DLPRCGSEAPRQEATTVSCFR GKGEGYRGTTTATAGVPCQR WDAQIPHQHRFTPEKYACKDL RENFCRNPDGSEAPWCFTLRPG MRAAFICYQIRRCTDDVRPQDC YHGAGEQYRGTVSKTRKGVQC QRWSAETPHKQFTFTSEPHAQ LEENFCRNPDGSHGPWCYT DPRTPFDYCALRRCADDPSSIL DPPADQVQFEKCGKRVDRLDQR CSKLRVAGGHPGNSPWTVSLR NWQGGHFCGGSLVKEQWILT AR/QCFSS/CHMPL/TGY*GMVG ATFFQNPQHGEPSL/QRVQ*AK MLCGPSGSQVLVLLKLEERSVTL N/HRVWALHILP/PEWYVVPPT KCEIAGWGET/KGTG/NDTV/LN VALLNVISN/QECNIKHRGRVRE SEM/CTEGALLAPVGACESDYG GPLACFT/HNCW/VLEGIIPN/R
19620	49988	A	19735	66	234	WCSAWHSWLPSPSGPAASYP PAACRSAPQWPD* ^R *CPRTHR RRSPWRAPWHCP
19621	49989	A	19736	3	500	GRGGGVRRCARPAPGRPPAA ARRRGDQRGRLGR/HVPGKTF CCGICGRGFGRRET/LKRHERIH TGEKPHQCPVCGKRFRESFHLS KHHVVHTRERPYKCELCGKVF GYPSLTRLHRQVHRLQLPCAL AGAAGLPSTQGTGACGPGAS GTSAGPTDGLSYACSD

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19622	49990	A	19737	899	2348	GRRRGGGGRCWRGCGSQSGPERF SCATCGQSFKHSW/DLVTHKYV HLMALLPPSCEAVAPRGWRRSC SCPECCRVCELSAA/RSATAR CFRRRSPIIAQAPAGPQVPQDW RSPRARIRLPVGPVGMFAFPTSA SGKAWPSLRVSPHAFWKYHT SPPAMQPSGLWASVPACAP*K NIPSPTIWQRLAFSGGLPICWV ENHGPAATSSQWLVSGPRSPHLL S/RAEHPFSRPLPRWVATAERQ RRPSGKRTNFPFASPAPPGA/G PEVSVPPAGALPGEALGPARDL WPCSSWT*AGLPALG/DTGGGE APAP/AAAAPSEDITLYQCDCG/ TTFASAAALASHLEAHSGPATY GCGHCGALYAALAEHRRV SHGEGGEEAATAAREREPAS GEPPSGSGRGKKIFGCSECEKLF RSPRDLERHVLVHTGEKPFPC ECGKFFRHECYLKRHLLHGTE RPFCHICGKGFTLNLNRHLK LHRGMD
19623	49991	A	19738	2	358	
19624	49992	A	19739	635	2441	LKAIKRHPFFVTIDWNVSCMPQ SPPPFKPAVGRPEDTFHDFEPT ARTPTGVCHSGSLYNAHHLFR GFSVASSLIQEPSQDLHKVPV HPIVQVTVFACSGFTDGYEIKE DIGVGSYSVCKRCVHKATDTE YAVKVRQAC*VSSLVFPAGTG APGIGEYSGKLVSILCAQDSP HNLLPQRKVEKPSLSILVGESRS HVDKGQEV DILEMGEFFFFIE FLVSPLATG*CFPMARSPCMGC SLSVCTAL*GQPLQGNTPTFKY QQVTWPQAKPPTPTAVLSPETA NVTSPQEQTRCLLKDRWLYPV VRNSSTRGPSEIEILLRYGQHP NIITLKDVSGPRATASVMELM RGGELLDRILRQRYFSEREASD VLCTITTKTMDYLHSQGVGAMP GAAFNILYRDESGSPESIRVCD GFAKQLRAGNGLMTPCYTAN FVAPEVSIPRLQTQACDIWSLGI LLYTMLAG*AVTSNRCHDTPPE ILARIGSGKYLSSGNWDSISD AAKVSTCPVALDPHQRLTAM QVLKHPVVVNREYLSPNQLSR QDVHLVKVPAGAVRTEWWE WDLNRTQPAPRLEPVLSNLAQ

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19625	49993	A	19740	144	1143	REAGRCSAGVGGRRRRRRK GAASRARLPFSLSIMDPSSLRER ELFKKRALSTPVVEKRSASSE/S SSSSISKKKTKVEHGGSSGSK QNSDHSNGSFNLKALSGSSG/Y KFGVLAK/VNYMKDTGIQRGD THPLTLDENLDETQHLDIGLQQ KQWLMTALVNNPKIEVDGK YAFKPKYNVRDKALLMLLD QHDQRLGGILLIEDIEALPNS QKAVKALGDQIPIC*SGPVRR KILFFNDKSCQFSVG*RIFRKL WEECQLVDSHGTEEK/VEEYLE ADRVFSSHARESG/PK/KVGPYS RRKGKSPAFTRKKPTFLRTSLT NHLAWNC
19626	49994	A	19741	677	1590	AHPHSPRRTLERQARISGAGR SSPNAANRGSA PPSRRLASFT AGSA/GRPA*SSPCSGPWTAVSA PRSPGRGGGRPPSPGRRRPCCS VFSGGASPPSARVSSPGSCSAS PPAAPAAWSLRGCGCWPG/VW EVHVNTGDSVVAAPAAWGRS AACGPNLGGSHPRAGRRAH RCGHPWSPRAPRPSCCGRSPR PGPPGASGCRPAPRPPTPASRS GRPCSWRRARAAGWPRGWG SSAGGCRRGSGRREWCPCGTA RGSPAAGVSRWTAPCRHRS DASASGTPARFPGAGRGRTL WQ

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19627	49995	A	19742	754	2179	SKMSRL EAKKPSLCKSEPLTTE RVRTLSVLKRIVTSCYGPSGR LKQLHNGFGGYVCTTSQSSALL SHLLVTHPLKILTASIQNHVSSF SDCGLFTAILCCNLIENVQRLGL TPTTVIRLNKHLLSLCISYLKSE TCGCRIPVDFSSTQILLCLVRSIL TSKPACMLTRKETEHVSALILR AFLLTIPENAEGHILGKSLIVPL KGQRVIDSTVLPGLIEMSEVQL MRLLPIKKSTALKVALFCTTSL GDTs*IPGEGTVVVSYGVSLEN AVLDQLLNLGRQLISDHVDLVL CQKVIHPSLKQFLNMHPHAIIDR IGSDSD/VEPLDLKWTGTQPIGS LGSICPNYSYGSVKDVCTAKFGS KHFFHLIPNEATICSLLCNRRND TAWDELKLTCTALHVLQLTL KEPWALLGGCTETHLAAYIR HKTHNDPESILKDDECTQTELQ LIAEAFCSALESVVGSLEHDGG
19628	49996	A	19743	1	652	LMPKPGDRDTTKENFRPISLMN INAKILNKILANQIQQHKKLLN HDQVGFIPGMQGWFNHKSINV IHIIKRTNDKNHMIISIDAGKAF NKIQCFMLKTLNKLNIHGYYL KIIRAIYD/KPPANIILNGEKLEA FPLKTGIRQG/CPLLRNIV/LEVL ARAIHQEKEIKGIQSGNEEVKLS LFADDMIVYLENPVSAQNLLK LISNFSKVSQYKISVQ
19629	49997	A	19744	1	834	MGDFNTPLSTLDRSTRQKVNK DIQELNSALYQVDLIDYRTLHP KSTYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEHITNCLSDHSA IKLELTIKKLTQNRSTTWKLN LLNDYWKYKQPSENKHLVYAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIRSEIEAITNSLPT/ KKSPGPDGFTAIFYQM LEVLA RAIRQEKIKGQLVKEEVKLSL FADDMIVYLENPVSAQNLLKLI GNFSKVSQYKI/NVQKSQAFLY TNNRQTESQIM
19630	49998	B	19745	1	1521	
19631	49999	B	19746	1	1461	

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19632	50000	A	19747	1	2347	MELKTKARELHDECTSLSSRFD QLEERVSVMEDEMNMNLP TKSPGPDGFTAIFYQRYKEELVP FLKLQFQIEKEGILPNSFYEPSII LIAKPGRDITTKENFRPISLMNI NAKILNKMLANQIQHQHKLIIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIIISIDA EAKAFDKIQQHFMKLTKNLKLV LEVLA RAI RQEKEIKGIQ LGKEEVKVSLFADD MIVYLENPVSAQNLLKL IGNFSKVS GYKINVQKSQAFLY TNNRQTERQIMSEL PFTIASKRIKYL GIQLTRDVKDLFK ENNKPL LKEVKEDT NEWKNIPCSWVGRJ NIVKMAILPKVIYR FNAIPIKLPMTFFTE LEKTTLKFIWNQK RACIAKSIFSQKNK AGGITLPDFKLY YKATVTKTAWY WYQNRDIAQWNRTEP SEIMLHIYNLIFD KPEKNKQWGKDSL FNKWCWENWLAICR KVKLDPLTPYTKMNSR WIKDLNVRPKTIK LEENLGITIQDIGV GKDFMSKTPKAMAT KAKIDKWDLIKLS FCTAKETTIRVNRQ PTTWEKIFATYSSD KGLISRIYNELKQIY KKKTNNPIKKWAK DVNRHFSKEDIYAA KKHMKCCSSSLAIRE MQIKTTMRYHLTPV RMAIIKKS GNNRKIQ/GGIWCD RIL*R*TT CRVAKEI QSL*RRI/W KRLQRTL SIPVLDAV*PPMF*AS
19633	50001	A	19748	1	1818	

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19634	50002	A	19749	1	1725	MELKTKARELREECRLSRSCD QLEERPNIIRLIGVPESDGENGT KLENTLQDIHQENFPNLAQVFN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELKKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAINKDKEDITTNPTEIQTII IREYYKHLYPNKLENLEEMDTF LDITYTFPRLNQEEVESLNTSITG SEIVAIIS/NSIPTKKSPGPDGSTA EFYQ/MLEVLAIRQKEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPKLPMTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWYQNRDIDQWN RTEPSEITPHVYNYLIF

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19635	50003	A	19750	1	1719	MHNTDGNRFLSHWGYRQALSI SKPASASLHPSSKTKPLGTQSKT VVAKRRNREHGKKERSSSPAME QSWMENDFDELREEGFRRSNY SELRDIQTKGKEVENFEKNLE ECITRITNTEKCLKELMELKTK ARELREECRSLRSRCDQLEERR KQERSKIDTLTSQKLELEKQEQ THSKAGRRQETKIRAEKKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITTDPTETIQTIREYYKHLYA NKLLENLEMDTFLDTYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL HINRAKDKNHMIIISDAEKAFFD KIQQPFMLKTLNKLVLVLEVLARA IRQEKEIKGQLGKEEVKLSLFA DDMIVYLENPVSAQNLLKLLS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKHLFKENYKPLLK EIKEDTNKWNIPCSWVGRJNI VKMAILPKVIYRFNAVPIKLPM TFFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLP

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19636	50004	A	19751	2	2133	WRRYQANGK*KNK/QKKAGV VILVSDKTDKPTKIKRDKEGH YIMVKGSIQEEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLINIYRIL HPKSTEYTFISAPHRTYSKIDHI VGRKALLRKYKRTIITDCLSD HSAIKLELRKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDCTKA VCREKFIALNAHKRKQERSKID TLTSQLE/LEKQEQTHSKASRR KSRNRG*IPGHIHPPKTKPGRI* VPE*TNRRV*N*GNN**LTNQK KFRTRRHSQILPEHSAGSSGQG NQAGERNKGY SIKRKGSIQVVP CR*HDCIFRKP HHLSPKSP*AVK QLQQSRLIQNRAKITSSPIHQ* QTNREP NHE*TFIHNC FKENKIP RNPTYKGCEGPIQGELOTTAQQ NKRGHKQMEHSMMLMDRKNQ YHENGHSAQGNL*IQCHPHQAT NDFLHRIGKNYFKVHMEPKKSP HCQVNP KPKEQSWRHHAAT*LQ TILQGYSNQNSMVLVPKQTYRP MEKNRGLRNNTTHLRPSSL*QT *QKQEMGKGFPI**MVLGKLAS HM*KAETGSLPYTLYKN*FKM D*RLKC*T*NHKNLRRKPRQYH SGHRHEQGLYV*NTKSNGNKS QN*QMGSN*TKELLHSKRNYH
19637	50005	A	19752	1	1314	

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19638	50006	A	19753	1	1998	MVKGSIQEEELTLHIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQAALIDIYRTFH PKSTEYTFFSAPHHTYSKIDHIV GSKALLNCKRTEIITNYSDDHS AIKLELRINKLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKA/PL ARLIKKKREKNQID/TIKNDKGD ITTDPTIEQTTIREYYKHYANK LENLEEMDITLDITYTLPRLNQE EVESLNRPTGSEIVAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSEIEGILPNSFYEAII LIPKPGRDITTKENFRPISLMNI DAKILNKILANRIQQHIKKLIHH DQVGFIPIGMQGWFNIRKSINVI QHINRAKDKNHHMISIDAEKAF DKIQPFMLKTLNKLVLVLEVLAR AIRQEKDIKQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS KFSKVSQYKIHVLKSQAFLYTN NRQTESQIMRELPTTIASKRIKY LGIQLTRDVKDLFKENYKPLLN EIKEDTNKWKNIPCS WIGRINIM RRSSAPSGCHLCPSSLYLHSPN VELKQASFSVAGFQWKLGITAP TQPRGVGDDFVTSTSPSLDMF PRLKGAENSPHRSGRD
19639	50007	A	19754	1	3288	
19640	50008	A	19755	1	1293	
19641	50009	A	19756	264	490	VYLLIVLAVLYTNNRQTESQIM SELPTTIASKRIKYLGIQLTRDV KDLFKDNYIPL/LKEI*EDTSKW KSIPCSWI
19642	50010	A	19757	1	1845	
19643	50011	A	19758	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSLTHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHV GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKA VSGKFIALNAHKRQKRCIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAEKLEIETQKTLQKINES RSWFLERINKIDRLARLIKKR EKNQIDVIKNDK
19644	50012	B	19759	1	1743	

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19645	50013	A	19760	1	1500	MGKKQSRK TENSKNQASAPPE ECSSPAMEQSWMENDFHEL EEGFRSNFSELKEDVRTHSKEA KNLEKRLDEWLTGITSVEKSLN DLMELKTMARELCDKCTSFSS KFHQLLEERVSVTEQDMNEMKS WFFEKINKIDRLLARLIKKKRE KNQIEAIKNDKGDITDPTEIQT TIREYYKHLTYNKLLENLEEMDT FTGTYTLPRLNQEEIESLNKPI GSEIEAIHNSLPTKKSPGPDGFTA EFYQRYKEELLFNIRKLINLIQL INRTQDP*PPL/VLSRIGRRVHQ YLENPVSAQNLLKLSNFSKV SGYKINVQKSQAFLYIKKRQTE SQIMSELPFTIASKRIKYLGIQLI RDVKDLFKENYKPLLENEIKEGT NKWKNI PCSWIGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEKI TLKFIWNQERACIAKTILSKKN KAGGIMLPDFKLYYKA\TVIKT AWDWYQNRYLQQWNRTEPSEI TPHIYNHLIF
19646	50014	A	19761	1	3192	
19647	50015	B	19762	180	190	
19648	50016	A	19763	1	3212	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRKKNLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRQKERSKIDLTSQL KELEKQEQTHSKASRRQETKIR AELKEIETQ

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19649	50017	A	19764	1	2607	MTNHCFKRQFQKHEMLLKEDC EPGDSSFILGEQHWENMLCEPK QHPPQQGEGRAAGQAQNP.LNT DVSPGAGAKESEEKIQHLNYT YFKQKCMSCSGFTFSSYAMHW VHQAPGKGLEWVSAIGAGGGT YYADSVKGRFTISRDNKNSLY LQMNSLRAEDMAVYYCARDTI DAYGDEKPSTIVTRIRVLRKLR DTCHMGADRTFLSPIAQHPPV CHVETHLGMQVANSSEEDLV WSKWDVDVKFILCCAKYHREQ LQESALDLKSLHCPASPALFL ATPSQPVLTTGPGSASSQGGAE MGAHFLVQLVQSGAETRESFD PALPEMETQRTDEQCRAVHPGP QKERHGNMSP.LLMKGSSSPVP SGPGEEPShREPVSFICGRCLLT LLLGDC.LWGE.GAWTQGDVLQ PSDRASFLAMGVNTTVQQVGD LSGYFPNSVGKACKCREFHLLT PLAHTSSTTHETFPGAQCEVQL VESGGGLVQPGGLRLSCPDG FTFSNHYMSWVRQAPGKGLEW ISYISGDSGYTNYADSVKGRFTI SRDNANNSPYLQMNSLRAEDT AVYYCVKHTARGKLEKQEQT SKASRRQEITKIRAELEKETETQK TLQKINESRSWFFEKIYKIDRPL ARLKKKREKNQIDA.KNGKGD ITTDPEITQTTLREYYKHLYAN KLENLEGMDFKFLDAYTLPRLN
19650	50018	A	19765	1	1251	
19651	50019	A	19766	1099	4113	
19652	50020	A	19767	1	2628	
19653	50021	B	19768	1	2970	
19654	50022	B	19769	1	4142	
19655	50023	A	19770	1	4091	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVNFENKLEEC ITRITNTQKCLKEL.MELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVVKRPNRLIGV PESDGENGT.KLNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIIVRTKVE

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19656	50024	A	19771	156	450	LQVEIYKTVKMHCIWHKQMVSYFFFYQKKNELSNFEVFLKTAGSMFFSTVVGCHPTRCGEFEKNNPDLYLKELLNLAEANNKGKVVVFIGECGLDFDRLQ
19657	50025	A	19772	173	1009	LHGGNLQDSKDALHLAQTNGMFFSTVGIHPTRCG*/YFEKNNPDLYLKGVAKIFA/EKTLKGKILWQLGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMFLHCRNSHGWNFLDIMKRNDRDCVGGVVHSDFGTKEAASLIDLDLYIGFNG/CASPENLEANLGRFWKSTPSEKLMIEA/DAPWCGVKSTHA/GSKYIRTAFFSKKKWESGHCLKDRNEPCHIIQLEIMSAVRDEDPLELANTLVNNTIKVVFSWNIGICLPLSIMYVKFHSKTS
19658	50026	A	19773	16	1558	QEIHLQRASPRLLQLLPLPPPPPPAAGGSLSSLSGRMSRQV/VRSKFRHVFGQPAKADQICYEDVRVSQTTWDSGFWC/SVN*VLWALICEASGGGAFLVPLGKIWTLWDKNAPTGGGSH/APVLDIACWPHNDNVIA/SGSEDICTVMVWEIPDGGMLMLPLREPVVATLEGHTKRVGIVAVWHTTAQNVLLSAGCDNVIMVWDVGP/GAAMLDTGPRGA/HPDANYRGDWEP/DGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVRAVVFSEGIKLTTFGRMSERQVALWDTKHL EESPV/SLRKLHTRNGVPVAFFGP/DTNIVYLRKG/SGPIRVFEITSEVAPFLHYLSMFS/SKESQRMGYM/PKRGRKVNK/CEIAGFYKLHDGR/CVSPMPKVPVRKSDLFQEDLGPTTPRGPDPA/LTAIEEWLGGRDVG/PLFISLKDGYV/PPKSRELARVNRGLDP/GRRR/AAP EASGTPSSDAVSRLEEEMRKLQATVQELQKRLDRLEETVQAKL
19659	50027	A	19774	229	475	

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19660	50028	A	19775	225	965	EWAWRSQRLRSEHSRADPTRSSC RSCGAKMSGEENPASKPTPVQ DVQGDGRWMSLHHRFVADSK DKSGSKKKNPPEVVFVIGDSL VQLMHQCEIWRELFSPHLAUN FGIGDGTQHVLRLENGELE HIRPKIVVVVVG/TPNNHGHTA EQGLLPRGQHPNPLREKNRQV NELGTGGTWLGHPRAHFLDAD PGFVHSDGTISHHDMYDYLHLS RLGYTPVCRALHSLLLRLLAQD QQGAGLLEPAP
19661	50029	B	19776	691	1077	PSVAFL*PSLHRYGHTGTAGPG WPCAAGS*AA/SSSRGLPSVLQ ASSNSSHRCNSTPSGAGQRR VRRAP*MASTTPGGTESGPCKA RNAFRMRSTSAFCRGQ*QRPVP SSSSSRSSSRACAVAGETASGDP RAQRQLRS*DESSSPSLDFRQA /PWPTAPCVKVSYSRRMFSGM SPWRSSDNKRNSFLRKTGTGSN FSADLDTPPMPEVCLLPSLGYP LVPPVAEVHMPVPAPILPSAGIR RKIQKAASAKQLPLFQMDDFS QHRVQGDTKK
19662	50030	A	19777	481	1308	
19663	50031	C	19778	41	318	INNHIRDSCWTCHCSC/QPPPPPP LLPQPPP*LSAPRVIERKE*DRL/ CPGEQTSSPTSPRTQSAATA QLSLPPP
19664	50032	A	19779	970	1193	
19665	50033	A	19780	1	494	MDGRVMAAGGRQAPGQKKAG TSEAPPSSQEWPEAWYGCLQQ KLRAVYLVQSQPCTGPVLAPG AACPAAAASTPGCAQW/CGPR ACSPQTSSQLCAWFAFSSRCPD FCPNPPRPL*DPSPWPTDPADRC SPELTIRDSCTWCHCSCRRRHR RPFCCSRRPDSPRHG
19666	50034	C	19781	120	392	
19667	50035	A	19782	174	375	

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19668	50036	A	19783	33	1154	QFALCAGWWLCGRGGGRTPAT MSGFSTEERAVPFSLEYRVFLK NEKGQYISPFHDIPYADKDVFH MIVVEVPRWSNAKMEIATKDP LNPIKQDVKKGLRYVA/NLFP YKGYIWNYGAFPPQTW/EDPG HNDKTLGCGCLTMDP/IDVC* NWEKGVCARGEIIG/VKVLG/IL AMNDGGGTDWKVIAINVDDP GCQPINNDINDVKRLK/PGYL* KL/PVDWFR/YKVPDGGK/PENEF AFNAEFKDK/DFA/IDIHKSTPWT LGKALVT*ENRMGKGISCMNT NFVLRAPFKVCILDAQSP/LWD ALP/THPCGICPCHSTQQTVDKG VPITQKNLMRFPLEYQADIA/YIR VPSWMVLEVKVVA/FSKAFKFV EPHPNLK
19669	50037	A	19784	1	612	VTQEDDIIEEHKPRTPRSP/LL APSPACQAFGEGHSPGH/PAIST GAGPRPSASFSPHLSGLHREPP LNWSVCPGLVWSPK/PALDETH PFVQQFPHQATLEWGVFHRDV GRRWGRR/LGNLQIGSEVARRR RVGGGGLQCRRLGVGASPGAD W**SG*EEACGGRWAA/GADG WGLGRPRELIGCRWRRSLAA APGPQRPGFVSVSTPRCPR/RSRG METQTPALRVQQDD/LFQS
19670	50038	A	19785	1	951	MEEGISSQIGRENECQQKKCQ TLIK/PSDLVRTHSYHENS/MGETI LVIQLPPPGTAFDMWELQ/KLI TQTFSHHNQLAQKTRREK/RAR QEA/ERREKAERAARLAK/KA ETSGPQIKELT/DEEAERLQ/LEID QKKDAENHEA/QLKNG/SLDSP GKQDTEEDDEEDKDKGKLKP NLNGEDLPNYRWTQTLSEL/D LAVPFCVNFRLKGKDMVVDI/Q RRHLRVGLKGQPA/INDGELYNE VKVEESSWLIEDGKVVT/VHLE KRG/PADAHSRALS/VLQASRLL GVHCVPGTVPNAEIQVVD/VFVY FWQSVIPQAS/PISE

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19671	50039	A	19786	87	1191	SAELRDVDRSAARLGGEQEEER FDGMLLAMAQIQHEGGVQELV NTFFSFLRRKIDFFIGGEEGTAE KLITQTFSHHNQLAQKTRREK ESPRRAEVRREKAERARLAK EAKSETSGPQIKELTDEKAVERL QLEIDQKKDAENHEAQLKNGS LDSPGKQDTEDEEEDEKDKG KLKPNLGNRADLAQ*RLNPDPC RELDLAVPFVFNRLKKGDMV VDIQRGTPRVGLKGQPSDSL GELYNEVKVEES\SWLIEDGKV VTVHLEK\NKMEWWSRLVS/S DPEINHPRKINPENSKA\SDLDS *DFASMV EKDDGMTQRTESPM GLPNFTQNRKKQEI LK\KFM\DQ HP\EMGFPPKAKFPTNPCCFP
19672	50040	A	19787	3	403	
19673	50041	A	19788	281	1952	DPVPGCRRLVAMAPTITQTAQ REDGHRPNSHRTLPERSGVVC VKYCNSLPDIPDPKFITYPFDQ NRFVQYKATSLKQHKHDLT EPDLGVITIDLINPDYRIDPNVL LDPADKLEEEIQAPTSSKRSQ QHA\KVVPVWMRKTEYISTEFN RYCIFHEK\PEVKKWGSVKQOF TEEEIYKDRDSQITAEKTFEDA QKSVIEGLGWGEARISQHYSKP RVTPVEVMPVFPDFKMWINPC AQVIFDSDPAPKDTSGAAALEM MSQA\MIRGMMDEEGN\QFVA YFLPVEETLKRRKRDQEEEMD YAPDDVYDYKIAREYNWNVK NKASKGYEENYFFIFREGDGVY YNELETRVRLSKRRKA\GVQ SGTNALLVVKHRDMNEKELEA QETRKAQLENHEPEEEEEEME TEEKEAGGSDEEQEKGSSEKE GSEDEHSGSESEREEGDRHEAS DKSGSGQDDSSDY*ARAARDK EEIFGSDADSEDDADSDDEDRG QAQGGSDNDSDSGRN\GGGQR TRSHRSASFPSPSGSEHSAQENG SEAAASDSSEADSDSD
19674	50042	A	19789	1	885	
19675	50043	C	19790	164	361	
19676	50044	C	19791	22	156	

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19677	50045	A	19792	1	1344	PGRTTRSMADVFLSAPIPRGC ADGRDADPTEEHMAQTERNDE EQFECQELL*CHVQVGAPEEEEE EEEEDAVLVAEEA V AAGWM LNFLCLSLCRAFREGRSEDFRRT RNSAEAIHGLCLSLTACQLRTIYI CQFLTRIAAGKTLDAQFENDER ITPLESALMIWGSIEKEHDKLHE EIQNLIKIAIACVMENGNFKG AEEVFERIFGDPNSHMPFKSKL LMIISQKDTFHFFQHFYSYNHM MEKIKSYVNYVLSEKSSSTFLM KAAAKVVESKRTRTITTSQDKPS GNDVEMETEANLGKKKK*LT NSLR*LNPRQVQYPY*GSHKNL FYLKLQHGTTQQDLNKKERRV GTPQSTKKKKESRRATESRIPVS KSQPVTPKHKRARKRQAWLWE EDKNLRSQVRYGEGNWSKIL LHYKFNNRTSVMLKDRWRTM KKKLKLISSDSED
19678	50046	A	19793	1	1444	IPGSTISCLKGQYPSFPNMAED VSSAAPRRRCADGRDPDTEE QMAETERNDEEQFECQELLE QVQVGAPEEEEEEEEDAGLV AEAEAV AAGWMLDFCLCLSLCR AFRDGRSEDFRTRNSAKAIY GLSMLTACPLRTIYICQFLTRIA AGKTP*MHRFENDERITPLGISP *MIWGSIEKEHDKLHEEIQNLIK IQIAIACVMENGNFKEAEVFER IFGDPNSHMPFKSKLLMIISQKD TFHFFQHFYSYNHMMGKIKSY VNYVLSEKSSSTFLM/KAAAKVV ESKRTRTITTSQDKPSGNDVEME TEANLDRKRSHKNLFLSKLQH GTQQQDLNKKERRVGTQSTK/ RRKKEGRRATESRIPVSKSQPV TPENDRARKRQAWLWGRKDK ILRS\GVREFGEGN\WS*ILLHY KFNNRTSVMLKARWRTMEG NLKLDLQDSEDWIVFVKSFDG KGQFKYFDHCLFETCVIDVI
19679	50047	A	19794	1	1020	
19680	50048	A	19795	411	769	SHLGFPGTWTRLWPSRMSPCPP QQSRNRVIQLSTSEL/APALGN WARLPQVTEQ*FRGLRKGSRT MPGSSPATWTKGCLLA*Q*CL CPQLGWSRVAP*CRLGALFLAC SLLLAAPLRFC

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19681	50049	A	19796	171	325	ETVAVSSAGARASSIMRMVSS RPSETSLSEVFPDSAP/PGL*PPP CLSFL
19682	50050	A	19797	335	1536	GCSPCPQ\QSI\NRVIQLSTSEL GEMELTW\QI\MSITEACRVLN APSEPSFEAPKQLPYL/GPPPT TY/CPC\SIHPD\SGFP\PPPYEL PASTSHVPDPPYSYGNMAIPV SK\PLSLGLLSEPLQDPLALLD IGLPAGPPKQEDPESD\SGLSLN YSDAESLELGTEAGRRRSEL RRCYPV\EYPYSLMPNSLAHSN YT\PAAE\TPALEPSSGPAVRA KPTARGE/AQ\SRDERRAL\AM KISF\PTDKIVNFPVDDFNELLA RYPLTESQLALVRDIRRGKNK VAAQNCRRKKLETIVHLERKL ERLTNE\RERL\LR\IRGEASRT LKVMRQQLQEL\YREHFP\SHLR E*NPQGTA\YS*KK*RA\CKQAC PNGDPSFPCGPRGT\KMEAHRL
19683	50051	A	19798	1	408	LNLMRWEAVQARGGAFRIPRV DPGPTPIPHNSSRFD\CN\SVSTA PRVLVSGICAAGSFVLVAFSHS VGTSLC/GYFLLLTSPEAQDPGG EEEEAESAAQPLIRTEAPE\SKPG SSSLSLRERWTVFKGLLWYIV PLV
19684	50052	A	19799	1	759	
19685	50053	A	19800	1	1815	
19686	50054	A	19801	1	942	MGGCAGSRRRFS\DS\EG\ETVPE PRLPLLDHQA\HWKNAVGFV LLGLCN\NFYSV\VMLSAHDILS HKRTSGNQSHVDPGPTPIPHNS SSRFD\CN\SVSTA\PRVLVSGICA AGSFVLVAFSHSVGTSLC/GYFL LLTSPEAQDPG\GEEEAESAARQ PLIRTEAPE\SKPGSSSLSLRER WTVFKGLLWYIVPLVVVYFAE YFINQGLVSEGCLFRPFPFSALN VCEVNLVKV\SQHG\GWAVV TQKKHPI\SCRR\NVDGMNIIS NDGSNKLNR\SRKARVSYKVQR TINASLNAAT\STRAVSSNPNFV

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19687	50055	A	19802	82	1620	SLSPVADPHPSRGSPLWLTLYDP GPSGDLNLMRWIGCAGSRRRFS DSEGEEETVPEPRLPLLDHEGAH WKNAEGFWLLGLCNNFSYVV MLSAAHDLHSHKRTSG\NQSHV\ DPGPNGDSPTTAYSRFDCNSVF TGAVLLADILPTLVIKLLAPLG LHLLPYRSGPRVLVSGICAGG KFRPGFAFHSVSGVTSLCGCWSF ASISSGLG\EVTFLLSLTAFYPRA VISWSSSGTGGAGLLGALS GLTQAGLSPPQQTLLSMLGIPAL LLASYFLLLTSPQAQDPERGEE AKVQAGQPFIRTEGPE\GKPGSS SSL\SLRERWTVVKGLLWVPLF PWFEVTFPKYFITQGLFELP/LFF WTTSLSHAQYRWYQMLYQA GVFASRSSLS\CSIGFTWALAL LQCL\NLVFLADVWFGFLPSI YLVFLI\LYEGAPWGSASLREK PF\HNIRPWRPSDEHREVCWKR PPCHL*HTGGFILSGASLALPLH DFLLPSSPDTRDPQDAGHIHLW ARGTGYQ
19688	50056	C	19803	270	542	
19689	50057	A	19804	271	449	CLELRNLFYGACSWEVSISSDS EKPGIFNASPASAVHC**GFARP SSWRVLGAICTFHHSVYAKTA KRKAST*RHFHH
19690	50058	A	19805	21	79	
19691	50059	A	19806	1242	1560	WATRSCSSMMEMPPWCPCGC AGRWRGGASRGPREAAAGH* KPRTSNQGEQPTRRSPYAACA RRAFAGPWASLPSPSPLSAGGL AWGAPCVAHPTRSPYLLV
19692	50060	B	19807	148	2949	
19693	50061	A	19808	1335	2173	KQAHRPREEKRREEKRKEG\PS VPETLKKQQRNFTELKIKRLRK KFAQQMLRKAR\RKLIYEKAK HYPKE\YRKMYRT*ISNGRGWA RK\AGQLYLVLKNPKFAV\VIRN QKVS\MGVSPKLRKVVSFLRP SSKSSNETFVKALKQRPSD*TM P*GLVRGP*LPWGYPPQS*SPV NEP*SYKRGYAKIQ*EAEPLT DNALIASISWVNSAFICM\DDLI HEIYTV\GKRFK\EANNFLWPLQ IVLLPRGG\MKKKTT\HFVEGGD AGTQRSDQINRLIRRMN
19694	50062	A	19809	3	186	
19695	50063	A	19810	272	428	

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19696	50064	A	19811	50	2237	RSLKAFICSLSDMDKQSRDPVVK MQGSITTPGSIALAQAQAQAV PAKAPLAGQVSTMVTTSTTTTV AKTVTVTRPTGVSFKKDVPPSI NTTNTIDLLVATDQTERIVEPPE NIQEIAIFNNLSQSNMTQKEE LVNNTLVQSYRQQIGNVVNQ ANLQLFWNMYNSRRDLINRP GTVFNAKTLRCPVMLVVGDNA PAEDGVVECNKSLDPITTTFLK MADSGGLPQVTQPGKLTFAFK YFLQGMGYMPSASMTLRASR TASLTASSVDGSRPQACTHSE SSEGLGQLNLKFEIEVLCKNLA LDINELKPGNLLKDKDRKLNLD EQLSAPKKDVKQPEELPITTTT TSTTPATNSTCTATVPPQPQYS YHDINVYSLAGLVPHITLNPTA HPQLKQCVRAIERAVQELVHP VVDRSIKIAMTTCQIVRKDFA LDSEESRMRIAHHMMRNLT GMAMITC/RE/PLLMISITNLKN SFASALRTASPLQREMMDQAA AQI*AQDNCFL/CKVGGVDPK QLAVYEEFARNVPGFLPTNDLS QPTGFLAQPMKQAWATDDVA QIYDKCITEQLHAIPPTLAM NPQAQALRSLLEVVLVSRNSRD AIAALGGLQKSMENGLNYMAV AFAMQLVKILLVDESRVAHV EADLFHTIETLMRINAHSRGNA PEGMDITTRQKVNKKREGFND
19697	50065	A	19812	1	3777	KNPEFNKMVLNETYRNKVLTT SDKAAANFSRSLKLNGLHWL GMITLAKNKPILHTDLVKSLL LEAYVKGQQLLYVVPFVAKV LESSIRS VVFRPPNPWTMAIMN VLAELHQEHLKLNLFKEIEVL CKNLALDINELKPGNLLKDKDR LKNLDEQLSAPKKDVKQPEELP PITTTTSTTPATNTTCTATVPP QPQYSYHDINVYSLAGLPHIT LNPTPLFQAHPQLKQCVRAIE RAVQELVHPVDR

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19698	50066	A	19813	160	1002	KRLGSSAISM SKYKLI MLRHGE GAWNKENR FCSWVDQKLNSE GMEEARNCGQLKALNF EFDL VFTSVLNR AIPTARLILAEELGQ EWVPV ESWRLNERHYGAL I GLNREQ\ MALNHGE\ EQVRL\ W RRSYNVT\ PPIEE\ SHPY\ YQE IY NRPGGIKVC DV\ ALDQLP RSE\ LKDVL\ ERFLPY\ WNERIAPEVL RGK\ TILISAHGK* AVGALLKHL GRYPSGLK\ TSINIY SFL\ GVPILL VELD\ ENLRAVGPH\ QFLGDQ\ EAI QAAIKKVEDQGKVKQAKK
19699	50067	A	19814	200	1155	NHYISLFQYSQDTCKLLFRNQ MTSQFLCIFSGLMVFFLIITTSQ VSFTNFFTGLKIFFLVIKFWVSE FLHHQTGTYIHIYLLFISMKSFF LYASPLTFMILSHFQASLSIFGF CSSLFRQSSFFSNILFF*VYTQSY REFRTYYETIPCQFDITFVIFKM CCILILCFD LNNRRNGSI IQKFG IYGLVKIFIF*IFTNIHLLQ*FFQV VFLOFFNI VKKSF LQAPGSKR* KFFSKVRFFSFL*F*KWEARSSA SKLFLLIY**VYR/IFSFLVFPV V/CPVGWYLLFFFLYLFLFLN LSKNSFYSQWYWFKR
19700	50068	A	19815	1	168	RPWLHLHGRPGWPAPETPPQD PEQAPPPGRAGPAGAEGLSCV /P*APSRPRPTM
19701	50069	A	19816	1	531	PVGQGARQDDSSSSASPSVRAT SQGGHLSDFLNKLVMRRKGI SGKGP GAGEGPGGAFVRVSDSI PPLPPQPPQAEEDDDWES*G AP*HLPPPDPLGRCSMDMTAR TSCSDLLPWEGVTEPAVCGDQL QGAEGWLEATQLGRGLVCLYF MGGRLHPACATVFLRGFORRR HTNQ
19702	50070	B	19817	61	969	
19703	50071	A	19818	60	436	RGSREY\ HTGCPRS GGCRSQCP GPPTQSPKVRPPQRGAPRLRG DFPPSRLLDTVSFPSPA*AAFPP CPVPHLPAPVQGA PREVVDPSPG GWATLLESIRRAGGIGKAKLRS MKERKLEKKKQEQ
19704	50072	B	19819	575	1666	

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19705	50073	A	19820	515	1110	MFHPTCLTCPAFANRPHVHCRP GAPAFAPSAGPTPELPTFHTEV SPSHSRQTLQDQVT*TA P P P P P P P P P P A P E V L G Q L Q P P L T L Q P R P L L G Q G A R E G R T A A A A / P S P S / G P G S S Q G S G R P L R W L G H S A R V H P P S W G H R Q G L A A Q H E R K R N V E K K K Q K E Q E V R A T S Q G G H L M S D L F N K L V M R R K G H L W E K D P G A W
19706	50074	A	19821	1	191	MQK*ITAWAPAPMKIKIIPASPER KYSVWIGGSIW/PQLST/FQQMW ISKQEYDESGPSIVHRKCF
19707	50075	C	19822	791	970	
19708	50076	A	19823	13	1260	INPPLSRRQCLSHSVLPPLRRR VSLPVAMEEIIAALVIDNGSGM CKAGFAGDDAPRAVFPISVGRP RHQGVVMVGMGQK\DSYVGDE AQSKRGILTLKYPIEHGIVTNW DDMEKIWHHTFYNELRVAPEE HPVLLTEAPLNPKANREKMTQ\ IMFETFNTPAMY\VA\IQA VLSL* \ASGRTTGIVMDSG\DGVTHTV\ PILRGLPHCSTPFLRLGPGLARD LTDYLMKILTERGYSFTTHGPS GKTFRNIKGEACATSPLDFEQE MGTVAASSSSLEKSYELPDGQVI TIGNERFRCPEALFQPSFLGMES CGIHETTFNSIMKCDVDIRKDL YANTALSGGTTMDPGIADRM QK\ENTALAAPAP*KIRIIPAPER K\YSVWIGGSILASLSTFQQMWI SKQEYDESGPSIVHRKCF
19709	50077	A	19824	93	534	

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19710	50078	A	19825	1	1462	WEVSAQSPSPAVPRRAPRLGLSA TRSAAGTMREIVHIQAGQCGN QIGAKFWVEISDEHIGIDPTGSY HGSDDLQLERINVYVNEAAGN KYVPRAILVDLEPGSMDSVRS GPFQGIIRPDNFVFGQSGAGNN WAKGHYTEGAELVDSVL/DVV RKESESCDCLQG/FQLTHSLGG RHGVPGWGTLLHQQSGGEEYP DRIHETPFSVH/VSPKPVFKTRL LEPLQRHTSRFHHLVENT/VKPR YSIDNEALVYVICLPTAES*PTPT YGALNPPGCSATMSGVTT/CLR FP/GGQLNADLRKLA/VNMPVF PRLHFFMPGFAPLTSRGSQQYR ALTVP/ELTQQMFDSKKMIA/AP CDPPPTGR/YLTVAAIFGRGMFH GRRWDEADGSNVAGTRNRQVI SWEWVP/VNNVKTAVCDIPPPG AWKMSATFIGNQPRPSRRLFK RIYE/QFTAMFPAQGPSLHWH GRRAMDGDGSSPEAREQHERP WCPEYQQYVGTPTPT
19711	50079	A	19826	2	180	
19712	50080	A	19827	28	185	
19713	50081	A	19828	179	307	
19714	50082	A	19829	438	663	
19715	50083	C	19830	99	335	
19716	50084	A	19831	1	320	AYADQL*LRRHKSSSSSSSSSS SSSSSSSSPLAP*LGSGDLP*EIN PPSSCSLLREKDPPTTSGP/PTS PRNISPISNPDPGTGNRTVQLTWQ PLPQPLELWPKAL
19717	50085	A	19832	578	753	LCTPTPPLFWKTVRKYSNNQ KGE*NTVLMVEVCPRSPRTN*KD SQ*PFELLTKMTSQGSDISGDLF WEINPLSSCSLLHEKDPPTTSGP QTDQPKKHLTNFKSETKETHFI RGPKTPVLVTDWEGRLPLVFN HSRDASLIHPRFRGVPRRDAC LGPSPLAASPAFLEEGQVPQPLL SMSLTPSLFWRRGKKPSTPSSP LAASPAFLEEGQVPQPHISVPRS LISTPQPLITLHPDPFAFLEDSK EVLKQPKGRIKHCADGGMSK EPKNQLKGLPVTKAGNIHGIND
19718	50086	A	19833	95	259	SHRPSQ*VLQLIKVAHPELFVPP SGFVVSLTSGMKLQTLTTREW MRILLIFWNG
19719	50087	A	19834	1	939	
19720	50088	A	19835	391	792	

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19721	50089	A	19836	1	1317	
19722	50090	B	19837	1	1665	
19723	50091	A	19838	573	902	YSCLLILIRKITQNSVEVLGRRK FLGGGMEREWMFL/EGCFKR D*GQRGNQFQIRVTAPNFMVCV CVKRPNNRLCVSNKAVYFTWV QVGFQIFKEPPIEICKVCWRP
19724	50092	A	19839	1802	2229	GGGAEEELGPSSAWRGAAC PCPRKAGLVAKAEGPRQASLR GLTPLKRECHREASLQ*LNTK/V KAAFPVRDRRWSFGFTDKTCLF CLGSEIGEVLGLVGLRT*GRR WIFLMEQRAGGQIDLPREVPR SKSGHQISLVS
19725	50093	A	19840	19	4153	PPDPLPGLPCPPGGPPLPAFGGG WGGARGSWHWSRACSRRRR LVHAPRALPLPRAAAEKAKRP AGARQMGLKARRAAGAAGGG GDGGGGGGGAANPAGGDAAA AGDEERKVG LAPGDVEQVTLA LGAGADKDGTLLEGGGRDEG QRRTPQGIGLLAKTPLSRPVKR NNAKYRIQTLYDALERRPGW ALLYHIALVFLVGLCLILAVLA TTFKYEYTVSGDWLWLLLETFALF IFGAEFALRIWAAGCCCR
19726	50094	A	19841	355	640	ILDYVFSSSHLFQSKLLGRRGR ASHGTKL*AGPGGGGEVIKGL* GGGAEEELGPSSAWQGAAC SFPRKAGLAAGGEGPRQASLH GLTPLKCG
19727	50095	C	19842	55	189	
19728	50096	B	19843	96	401	
19729	50097	C	19844	558	725	
19730	50098	C	19845	448	540	
19731	50099	C	19846	140	334	
19732	50100	A	19847	362	710	ILGGRKLRLEKSLGCAAQGGG AL/YEWELELRNGCLCCSVKD NGL*/RAIENLMQKKGKFYDYL LETTGFADPGAVASMFWDAAE LGSDIYLDGIITIVDSKYGLKHL AEEKPDGLIQ
19733	50101	A	19848	181	543	
19734	50102	A	19849	1	594	
19735	50103	B	19850	29	746	
19736	50104	A	19851	45	362	EEQHSMLGSGFAERLRVNLRL LVINRLKLE/KKDERARIRVEH IREDYLV EAMEILELYCDLLA RFGLIQSMKELDSGLAESVSTLI WAAPRLQSEVAELKIVA

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19737	50105	A	19852	344	951	EEQHSMILGSGFKA EHLRVNLR LVINRLELL/EGKKKKKTELAQ KAGKEIADYLAAGKDERARIR VEHIIREDYFVEAMEILELYCDL LLARFGLIQSMKELDSGLAESV STLILAASRLQSEVEGFPNIYSS* IPSNSPIIL.NL.*MAIKGCKNY/RL LHQIVVPGPSQKPLQNFLDLR LPWTTLLWPIFGLGKIPLWERIK
19738	50106	A	19853	1	1077	
19739	50107	A	19854	1	1140	
19740	50108	A	19855	1	3426	
19741	50109	A	19856	1	942	
19742	50110	A	19857	342	1499	EEQHSMILGSGFKAERLRVNLR LVINRLKLEKKKTELAQKARK EIADYLAAGKDERARIRVEHII EDYLV EAMEILELYCDL/LCLA RLG/LYSSY*KELDSGLA/ESYST LIW\AAPRLQSEVA\ELKIVADQ LCAKYKEYGKLCRTNQIGTV NDRMLMHKL/SVGTPPQILVERY LIEIAKNYNVPYEPDSV\MAE APPGVETDLIDGGFPDDVKR\ GPWKKEGSGGFTAPVGGPDGT VPMMPMPMPMPMPANTPFSYP LPKGPSDFNGLPMGTQYAFPN HPPQIPATSPIRIESVRWTFNCLI KEYS/IFLAQICLGPQKARRPF AKFP/SRPADNF*QLLFLPELPSV PDTLPTASAGASTFRILKDIDF DDLRRFEGAGKRKT
19743	50111	A	19858	2	255	GCISTSRGSMPTTTLRLQKIS *RSYSSAPASCLISIVKSASD*RA RAPTRGSYGGPLRLSSSSSLAS GRCVTSRASLRPRS
19744	50112	A	19859	1	276	
19745	50113	A	19860	3	151	GAVPAVRLGGPLHVHLPHAR*P SNLSALQFYQDGLRWVQTVS *RAASRSPPTRPVTIKSVCTPILP GWLSSLVANCIVKSASD
19746	50114	A	19861	1	386	DCVIATDAEVLGAPVKGKRRG RGPKGDKASDPEAGVARGIDF HHVSAVLNFDLPPTPEAYIHRA GR**CDGPGICMVGLRDLGCA GQSLRVGDASCTVFPCTARAN NPGIIVLTFVLPTQFHLCKI
19747	50115	B	19862	26	186	

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19748	50116	A	19863	2	1839	ARGQVRVRAALLSSAMEDSEAL GFEHMGDLPRLLQAVTDLGWS RPTLIQEKAIPALALEGKDLAR ARTGSGKTAAYAIPMLQLLLHR KQRQVRW*NRQ*EGLVLVPTKE LVARQAQSLIQLATYCCSGMS ELANVSAC*KTQSLRELCLMEK PDV VVGTPSRILSHFAARQPET FVTPWSFLVVERSLTFFFPFGFE EELKKSSSGKAESLAPDFNKAF LMSATFNEDVQALKELILHNP VTLKLQESQLPGARPVTA VSGG L*DLREDKFLLLYALLKLFIDSG ASLWLFCSL*EREFTGLRFL WEQFQ/LSPTCVLNGELPLRSR VPHHL/QQFNQGFYGLCHRQL/ NAEVLGAPVQGGASGPRAQRG Q/VPLDPEAGVARGIDFHHCVC/ VLNF*SFPTPEA\YIHRAGR**C DGPICMDSTR*QPRAS*SPFVL PTEQFH/CRQD*GASQWREQGA P/SLLPYKFGMEEIEGFRYR*GV HPQDAMRSVTKQAIREARLSLI KEELLHSEKLVYTFGRQPLGD LQALRHGPLYLCTPQLVEAPTW GHVPDLPGSSCFSVLGAAPFTK KREEACLPSCKRAQESKVPRT LRSFKHKGKKFRPDSQALREVV
19749	50117	A	19864	3	378	TTTKFAGRPRKVTVLGQP/KAA PSVTLFPSPSEELQANKATLVCL ISDFYPGAVTVAWKRGSPPVKA GVETTTPSKQSNKYAASSYLS LTPEQWKSHKYSYSCQVTHEGST VEKTVAPTEYLLRVY
19750	50118	A	19865	1	546	MAWTPLLLLLSHCTGSLSQPV LTQPPSSASPGESARLTCTLP DINVGSYNIYWYQQKPGSPRY LLYYYYSDSKGQSGVPSRFSG SKDASANTGILLISGLQSEDEAD YY/CGCFTVFVWTF*VLVPEHQ QSWLPLWTPGVVSLLV/CLVPS FVPPPLTKVPSSLSPPKESAILA VDIH

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19751	50119	A	19866	2	838	RVRVSTMAWTPLLLLLLSHCT GSLSQPVLTPPPSSASPGESAR LTCTLPDINVGIYNIYWYQQK SGSPPRYLLYYSDSYKGLGSG VPSRFRSGSKDASANTGILLISGL QSDDEGADYYCATWDSSLTGQ VFGGGD/TKLTRP*GQPKACPP GVTLVNPFP/SRSFQAQQGPQL VMSS*SDFLTPGSPLNSCPWK\A DSQPPFKAGIVETHTIPPKQSN QVRGPAGYLSLTA\EQWEVPTE SYSCQVTH*RGAPWEKTVGPY RMFHRFLNPSPPHHGMT
19752	50120	A	19867	1338	1854	NSETREHNHRYVPQRETSGGTD GWKSKQPE*L*RRQLVQSWAK S*NQPKLPSSPH*ELPWVTPSA RNFRSGPYSPPPPPQPLPSSHL SSLHFYSPFVSYTSFDLYSSSYH SYLMDEDTVPEKELRSSQKVIG HSFTGFQPTLSANPYDRGDGKII ELLPRKAQTFPVVRT
19753	50121	A	19868	1	500	GSTYSELLSGTACVVITALHLAQ QRRHHLLGLASRHDAPEQLA VGAPVQPRPLPAPAGAQLVG HAHVVEGGP/PGSGGPGEGAI ARGPGAAAAAGAPGARRRR LQASAGPCSRSEPGRRSAPRA APPAPSAGPHVAFPSRRPAAGS PPRSRPPPPGIPGTGGR
19754	50122	A	19869	20	507	TRQVYSGGVRTPPCQSHPHRPR SSCRPPPPRRPRSSRRRRGLSP RRAPAHWSSRSTRPAWWAPSR RHAPRPPWSPGASG*CSVYFPI LPLALFPLPVHHGGVHVCGREG VGLVQEGDSSHSGEWS*RSAWG STSLRAAPRSGRPPAGGGWR YTRPPSRR

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19755	50123	A	19870	236	1191	GSGRIPGRAGLEGPGPAFQKSR LSPASGSAGPRGASPSAVPPGR/ RPGVPAFPASNPPPVAAVPGPW VTCWKGKLGQEGKAPRAPH GTPQR/SPGSARPTGLSPFA*PSR *RARRRSPETP/PGHGRAGPPPP DGA VQRQGPGRAPASASRPPGS ARARRRRWPAARPPGCPARPG PRGGRPRRRPSPAAAGRARRRA PRTPAARSR*VCPRGRRSAAAP RGHGTAFCAAAAPP/PRGLGRP ADAEQ/PRCRCARPAPLPAPA GAQALVGHAILLLKALGHDF TFLWATIHVVPKMRWGQSQSC QRGGSSHTPDLSA
19756	50124	A	19871	24	286	LRGQKVLLLGDRARLSQKKKE RKREEREREGHGRNGR/RRNG QGRGPEGQR*NERTGQERTGH GREGRKEGRKEGRKEGRNERE
19757	50125	A	19872	43	373	PRFTDENLEMCTVIQSVQCYHR SWH/HSSPPEPAPIHQSPAHSP VLCWFRRLLGGGEDWAPSSGGR AVWRSHCSFCSSSSCCSCSQ SGKRTAAAPWPTTSPAPSRSCC A
19758	50126	A	19873	3387	4083	AGRSALPVDVAVQVQAEGLWPP AVLLHHHHHPHHHHYHHYHHH HHHHHHHP*HHHPHHHHHHHHRN HHHHHHHHLLHHHHHHHHHHHL YHSHVHHHH/HHHHHDDHHYHH FHDHYHHHHHH/HYSHH/HHHP/ HHHH*RHDHY/AHHHHHQ/HH CHHCHHPHRGHYHYHHHGT VAFGALEDSAVARTGLPLPEGV LCGAPTAASAAVPPPAVPAPN QGRGPQLHPGQQLRPLLAHA ALQWPTTHL
19759	50127	A	19874	3	411	
19760	50128	A	19875	1	1095	
19761	50129	A	19876	1	471	
19762	50130	A	19877	1	554	FRGRLASPRFPVPMELGKLGQ FDA YPKTLED FRVKTCCGATV TIVSGLMLLLFLSELQYYLTIE /VKGRGLMRGRGLAF*E*DL*G WEWGRRGLGLSLTEVALPQVH PELYVDKSRGDKLKINIDVLF HMPCA YLSIDAMDVAGEQQLD VEHNLFKQRLDKDGIPVSSEAE RHVLSFVVSAD
19763	50131	B	19878	1116	1274	
19764	50132	A	19879	28	389	

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19765	50133	A	19880	75	448	
19766	50134	A	19881	276	830	QEDSCPLHPLSGIPFRRFQPTPE EAGAVVPGEPTHDQGPSSALT RR*ACQGPLHLARTTAEPGHAH PWH*RWQRYMGKLRDLEKV CPVWSSVACSSPGLSWAGKTE AKTSLEGGNSASASASSWA WG RSS LAPVRDILGSREFSGLLEGT FVLSVTLSADFGIGTWVDLGKV TGSSSKEGRL
19767	50135	A	19882	223	1269	APVTKRKEVFAKDSKGSALDA GRDPKRPALEPETLCESGWASNT APTAPPQPGWCLCGKDFKSSCQ TPGREKERRLATMHGSCSFLML LLPLLLLLVATTGPVGALTDDE KRLMVELHNLRYAQVSPASD MLHMRWDEELAAFAKAYARQ CVWGHNKERRRRGENLFAITD EGMDVPLAMEEWHHEA*/DTT TSAP/HSCSPGQMCGRYTQVVW AKTERIGCGSH/SCEKLQGVET NIELLVLCNYEPPGNVKGKRPYQ EGTPGSQCPSGYHCKNSLCEPI GSPEDAQDLPLYLVTEAPSFRA EASDSMKMGAE GPKPSVVSG LNSGPGHVWGPLLGLLLPLV LAGIF
19768	50136	A	19883	2	281	FVPALGSSAVMLSRRCVSRF SRSLSAFQ/KGVSLCQGPYPNS RKVVINNSVFSVRFFRTTAVCK DDLVTVKTPAFASVTEGDVR WEKGKI

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19769	50137	A	19884	1	1320	MPAVTILKPNLKQILGLKAAE VSSLPPSIVLDAKEITTTQITRQIL KGNCPLGRHSLPGVSLCQGPY PNSRKVVINNSVFSVRFFRTTV CKYDLVTVKTPAFAEPVTEGD VRWEKAVGDTVAEDEVVCEIE TDKTLVQVPSPANGMIEALFVP DGGKVEGGTPLFLRKTGAAP AKAKPAEAPAAAAPKAEP IAA AVPPRAAPIPT/QMPVPSPSQPP SSKPVSAEAQNTCA\MLTIFNEI DVSNIQKMRARHKEAFLKKN LKLGFMSASVKASAFALQEOP VVNAVIDDITKEVVYRDYIDIS VAVATPQGLVVPVIRNVEAMN YADIEQTITELGEKARKNEFAIE DMDGGTFTISNGGVFGSLF/GT P IINPPSAILGMHGIFDKPVAIGG KVEVQPMMYVALTYDHRLLIDG REAVTFLRKIAA VEDPRVLLF
19770	50138	A	19885	1	1559	MESEALVVCINHCMAVNYGMI YQRGSSNMNLSLSLKHPEKGT SPTANHGISDLQEGEAACGSLR TPLVGRRVLRPAFLPVVVRPYI RCPPALGSSAVMLSRRCVSRA FSRSLSAFQKGNCPLGRRSLPED DLVTVKTPAFAESVTEGDVRW EKA VGDITVAEDEVVCEIETDKT SVQVPSPANGVIEALLVPDGGK VEGGTPLFLRKTGAAPAKAKP AEAPAAAAPKAEPAAAAVPPPA APIPTQMPVPVPSQPPSGKPV AVKPTVAPPLAEPGAGKGLRSE HREKMNRMRQRIAQRLKEAQ NTCAMLTTFNEIDMSNIQEMRA RHKEAFLRKLKLRMLSAIV EGSA\FALQEKPLLMGIDDDTT KEVVYRDYIDISVAVAIHPRGLV VPVIRNVEAMNFADIERITITELG EKARKNELAIEDMDGGTFTISN GGVFGSLFGTPIINPPQSAILGM HGIFDRPVAIGGKVEVRPMY VALTYDHRLLIDGREAVTFLRKI KAAVEDPRVLLDL
19771	50139	B	19886	239	3045	

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19772	50140	A	19887	3	809	RGRFLPPCHPAALPPCRPAALLP VVAARGAPSPPPPHVLPVGVSG LGYNMLGMINKSLFGSVETWP WKVLSKGDKEEVAEERACEG GKFAFVETDKPVDEALTGK QLPKVAKYAGGTNDKGIGMG MTVPISFAIVFPN*RWLSCRKCL KVWFPPDFQTNFQSDPPAPS/DKS VKIEEREGLHCLIPQFGGYAK/ EADYVVAQATRLRAALGG/PAT YRGDIYFCTGYDPPMK/PYGRR NEI/WLFEDMSDPTERTYWEV CLCVSFLRG
19773	50141	C	19888	164	208	
19774	50142	A	19889	1542	1929	NLVPSLGSGLPWEINP/LSSCS LLHEKDPPPTSGPQTDQPKKHL TNFSAARPTVSWGRGKYPSTPS PSPLAASPAFLGKNPIAYFHT PYSYLCAPIPYFCAPTSLFLWR ARTTTPTPSLCLKSFL
19775	50143	A	19890	1	208	MPEPQRPVGPPEPPPGACYAC RKSGHWA/RNARSPLGFLSRVP SPPGPSRTPSFG*LSQWKPTCTQ VK
19776	50144	A	19891	1	1662	
19777	50145	B	19892	1	915	
19778	50146	A	19893	183	569	
19779	50147	C	19894	71	344	
19780	50148	A	19895	147	446	
19781	50149	A	19896	167	373	
19782	50150	A	19897	142	363	
19783	50151	C	19898	52	174	
19784	50152	C	19899	228	260	
19785	50153	A	19900	1	753	
19786	50154	A	19901	1	1077	
19787	50155	A	19902	500	912	LGSDFPWEINPLSSCSL/LREK DPKTTSGPQTDQPSKHLTNLKS ASTPPPPNPFITSPPHTRSGLQFR STSSPPAPAQQFTLKKVAEAKG IVKVNAPFSLSDLSQISVRLGFI KYEKSSPVHGSFGSNPETLYSP
19788	50156	A	19903	1	861	
19789	50157	B	19904	174	222	
19790	50158	A	19905	1	756	

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19791	50159	A	19906	1035	1852	NLVPSLGSGLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSAARPTSWGRGKYPSTPS PSPLAASPAFLGQRQVPLSWGR GRCPSTPSPSAASPAFLGQQGQ RQVPLSWGRGRCPTSPSPSA ASPAFLGQQGRQVPLSWGRGR CPSTPSPSAASPAFLGQQGRQ VPLSWGRGRYPSTPSPSAASP AFLGQQGRQVPLSWGRGRCP TPSPSPSAASPAFLGQRQVPLSW GRYPSTPSPSAASPTFLGQDL PLSWG
19792	50160	A	19907	1644	1981	LGSGLPWEINPSSSSCLLREKD PPTTSGPQTDQPKKHLTNFKSA *KRTNTASYK/WHQSQRVPAPR DGLVAAPTESEVAFLVPVPHQG PPLGNLGPSTVTTSFRCWLLDP RS
19793	50161	A	19908	1011	1154	
19794	50162	A	19909	1043	1168	
19795	50163	A	19910	1328	1470	
19796	50164	B	19911	406	1191	
19797	50165	A	19912	2848	3140	SFYHLSSSHLVRLTVSFRD*PSP TCPAITYS*KGGWSQRHSQGACY TCRKSGHWA/RNARSPGFLLSH VPSVWDPTENRTVQLTWQPIPE PLELWPKAL
19798	50166	B	19913	1	941	
19799	50167	A	19914	656	1983	NLVPSLGSGLPWEINP/LSSCS LLHEKDPPTTSGPQTDQPKKHL TNFKSEAKEICFIREKTPAPVT DWEGSLPLVFNHCRDASLIHS RFKGVPRPRDACLGPSPAAASP FLGKGQRLKTDARLPRKPPRP SRMPSFGVKHVNVTIDCLPEGA ATRGTARTSKPTTKSQKTLPT SPGHWQTQSPWASALRSSPWTE TAAPSETEETLNTGRPPPELARA TATWFSASHTLPALATRRVART QWLTAQRQTWASISSVPWAQT ISEKKPGGSLWETRSPPTTAGT EEAMNTTSLAPAAEIMATPGS PSQASPTSGAFTHTGQTPSPTKA TAPRYPQTGNSILTFGRPFLPFA GDLFAEWPFAGEEPVLVPRPH QVSKTRSPSFHLTLKTVTVVAL LGNGEFCYVYLSVSELREIRTR LYSPDAGLNEEKMLTKLLLI
19800	50168	A	19915	117	432	
19801	50169	C	19916	122	289	

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19802	50170	A	19917	1	516	
19803	50171	B	19918	212	3302	
19804	50172	C	19919	181	444	
19805	50173	A	19920	151	485	SPRGHYQLLSGRALADRYRKRI YTAALNDRDQGGGSAGHPAS/ RSENLENTV/IIPDIKLHNSPSAFN IYCNVRHC/VLEWQKKEISLAAA SKNSVQSGESDSDEEESKEPPI
19806	50174	A	19921	1	3465	
19807	50175	A	19922	1	176	
19808	50176	A	19923	114	14211	AAPVAAPGALFMPVPDGSVAA AGLGLGLPAADSPGHYQLLSG RALADRYRRIYTAALNDRDQG GGSAGHPASRNKKILNKKKLK RKQKSKSVKTRSKSENLENTV IIPDIKLHNSPSAFNIYCNVRHC VLEWQKKEISLAAASKNSVQS GESDSDEEESKEPPIKLPKIEV GLCEVFELIKETRFSPSLCLRS LQALLNVLQGGQPEVLQSEPPE VLESFLQLLEITVRSTGMNDST GQSLTALSCACL
19809	50177	A	19924	375	1191	SQGIPELHYTPGPRGRWCGW/W PIVEPRMGASQGCCVLGHLAQ QGGGASQAVRGANGVHAGCR GDPHPRSDHYPGGRFWLPGAS QDPAVAPGGHGHPSYLARLPC AAEPGTP/PAEPPRSSLPGAAT APAGT*/PALADAPPRRVGGAG QPGRGHV*PKLVPGWQSQDSI* PSL/PSSPARHTLAASATP*APGS GARPAW*C*WAPALAPVIPVD AHSPP/GGAGHGGPH*GPRGSV LGLRLPAGCPGPRQPHRPQSG PQPSSPPGGALRSASR
19810	50178	A	19925	3	543	SDDQPEKPHFDSRSVIFELDS SGSKVCLVYKSGKPALAEDTEI WFLDRALYWHLTDITFTAYYR LLITHLGLPQWQYAFVSYGISP QAKGITKATCEWGEHIPLGSM AINSISKLTQLTQSSMYSLPNAP TLADLEDDTHEGRKGTEGSQL KCEHQLPPPMHSHVGGGQRESL ARKEK
19811	50179	A	19926	1	392	FLDRALYWHLTDITFTAYYRL LITHLGLPQWQYAFVSYGISPQ AKITYNIKMNRKCVHWKLA EPLQWELRSCVSGMGTGPKQ KVSSMKPRSCVCSRRQNSMG TTVSQSFLSYGKNVLFPPVRCC

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19812	50180	A	19927	1	1081	RAMEEEASSPGLGCSKPHLEKL TLGITRILESSPGVTEVTIEKPP AERHMISSWEQKNNCVMPEDEV KNFYLMTNGFHMWTSVKLDE HIIPLGEALAINKHLKTDFSFTQ SSMLFTFLIAPTLLGQTWEDDTH GSQWMIQPEKPIIFGLFAVLIF* GWVSI CNGSGKVCVLYKSGVK PALAEGHWRFLEPGTELLYWH FLTDFTTAYYRLLITHLGLPQ WAILPFTSYGISPAQKWFSM Y*TYSPYNTNLV/TQKETDSFCG IKLDPSKVF*GGKNKIVIPKKKG PVQAGGQKGPFRDPPVPSISSI FKSSSGLWGNPTREVSTPPNSL PAPEWWFPCTDGRGDLQFCV WTVGLFLVE
19813	50181	A	19928	1	2835	MDALMLALGALMLALGLGDP KSAQVSDPDGAEPGPRATGT DPLVQIHWKLGISEALSIPGGRL YRDLWSLTPVCLHIPGIAHHGP FTLGRMDVVEVAGSWWAQER EDIIMKYEKGHRAGLPEDKGPK SFGSYNNNVDDLGVHETELPP LTAREVKQIRREISRKSWVKM LGEWDTYKNSRKLIDRAYQGIP MNIRGPMWVLLNIEIKLKNP GRYQVRSARAQPTGQAVSGAQ VSSWRERQDHPGELGVKI
19814	50182	A	19929	3	142	TISSIIIRKARKPQDLLNNYTPRS SPLRSSGRTRMYKGNVRPGNS S
19815	50183	A	19930	904	1295	WALMNGSESFFVSSSQGRSEL VPNS/NYAVDY*PLTAHAVSSG GTSPVLARLLREKLESLLPLHL GQVAKYAGQLRGRVKQGFAT MGERRRFWEKLFVNDR/AGAV AGKQRSSEHY*NDRTVNQRTA RPSR
19816	50184	B	19932	1	1050	
19817	50185	A	19933	303	384	

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19818	50186	A	19934	375	1161	EALESAPEG/RR*GSGTKTSLSPS P/PAGSWVCRIPMGRGCRHGAE R/P/PGSQESSPSNGHGKLAGPSP YLGGRFKSSS*T*QSPQTPAQGV AS*GLGAAPVLRLLQGPVPPSHC GKSRDPDC*PSPGSPDPGGERES QQESQ*WPPVGELCTDPTGNPE RGGRHLQSHAPSGGGLSGFPS DSFPCSCYYGSTPVARKKRFAK CRGYIYDFVYELLSLKPPSQGV AEMPPFAVGQQG/QAEPGIPQ SPAGGRVFFQDFYSLCLNTS
19819	50187	B	19935	62	346	
19820	50188	B	19936	1	1629	
19821	50189	A	19937	1	1218	
19822	50190	C	19938	718	1053	
19823	50191	A	19939	54	212	
19824	50192	A	19940	122	451	
19825	50193	A	19941	329	398	FFSYFRPSGCILPL*ELPEARCP
19826	50194	A	19942	92	346	VGSSPSRL*SLRGQVLNKN*/S/ QLGCLHIVGNPI*NS*DVPWAG WSED*GRRWISSRSSSKDRGPV S*RSPPVPGQLQHQMASHAM
19827	50195	A	19943	284	374	LKNHNRSEYALPHLN**PSTTK EV*/M/DRS/SALSDITL*KSFSW LILAQKSPPLSTLQPLLPAEQ TLFDCNSPLPTQL*NGPTLISLR *LSQDEPGKGLSQGNVIT
19828	50196	A	19944	1	1674	MAPPSPFADSLFGLSPAPRDK GDTFYFPWTQNSGARHGLGRQP SLGVSSLQGRSLDHSPTFQRCQ TTQGRPLPWSFTLSGKSCFSEEG AIPTPSVAESFQSSFTDPSDLSP PPQPAHRQAEPSNSSASTPPP YNPPTTSPPHTRSGLFSSATSS SPPAQFPLREVAGAEIGVNAH VPFSLSDLQSISQHLGSFSSDPT KYIQEFYLTLSYNLTWSDLNV ILTSLSPDERERVFPVSQSHAD NRRLHEP

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19829	50197	A	19945	1746	3501	ESDPSNSTTSMDRITLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPLDISHQQAALLRTY LKNLSPIYNSTPPIFGPLTTQTIT PVAAPLCISWQRPTGIPLGNLSP SRCFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCLSLHPWLSPPCSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVVWQDTPF STPSHLFTLHLQFCLAQGLFFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPILPLMVLGLSLASTVA LGTGIAGISTSVMTFRSLNDFS ASITDISQTLVLQAQVDSLAA VVQLNRRGLDLLTAEGGGLCIF LNEECFYLNQSGLYVDNIKKL KDRAQKLANQASNYAEPWAL SNWMSWVLPVSPILPILLLL GPCIFRLVSQIFQNRQAITNHSI RQMFLLTSPQYHPLPQDLPSA
19830	50198	A	19946	1392	1676	GFCILHIVLEPWFSAPSAPLSTSL YWL*LYILLNFFQSFQLLCLW FECPPVAQSNLIV*SLLSARQS HSPSFFPLLVRCNCPLEERCS
19831	50199	B	19947	1	1500	
19832	50200	A	19948	107	691	ITMLLIQSLFGGLFTWTRMKFG AVARIGGHPGLGQSPSSCSLLP EKDPPTTSGPQIDQPKKHLTDF KSGTPL*LYTHVSRVSDHAGTP ALVLHPYVGKSRFSGEGATQRQ YPIPQALKGLMPAITRLQHG LLKPINSPYHSPILPVLKPKPY KLVDQLPLSTKLFCSTPWQCQT HILFYQYVLPQLPIILF
19833	50201	B	19949	1	2628	
19834	50202	B	19950	1	585	
19835	50203	B	19951	178	462	
19836	50204	C	19952	1	825	

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19837	50205	A	19953	644	1795	RPSKSQTMNLNSLSTALIIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAAASHIIDTTPD PHDCISLIHLTFTFPQISFFPVSHIP DHTWFDIGSSTRPNATTHQQRQ AML*YLPHLSLRLPLCLPPLPLS KPN*LP*LPKPSNYPNSPILPVQK PDKSYRLVQDLRLINQIVLPIHP VVPNPYTLSSIPSTTHYSMLD LKDAFFTIPLHPSSQPLFAFTWT DPDTHQSQQLTWAVLPQGFRD SPHYFSQALSHDLLSFHPSASHL IQYIDDLLCSPSFESSQDDTLL LLQCLFSKGYRVSPSKAQISSPS VTYLGIIHLKHNTHALPADRWPS CLRAAAAAALILVEALKITNYA QLTLYSSHNFNQLFSSSHLTHIL SAPRLLLLYSLFVESPTITIVPGL DLNAAASHIIDTTPDPHDCISLIH LTFTFPQISFFPVSHPDHTWFD GSSTRPNHHSPAKAGYAIVSST SHIETALPPSTTSQQAELVTLT QALTAKGLRINIYTDISKYAFHI LQHHAVIWAERGFLTQTQSSIN ASLIKTLTKTLLPKAEGVIHCK GHQKASDPALGNAYADKVAR QAASSPTSVPHSQFFSFASVTPT YSPTESTYQSLPTQKGWFLDQ GKYLLPASQAHSILSSFHNLFH VGKPLDRLLLELISFSPWSKIL KEITSQCSICYSTTPQGLFRPPPF PTHQARGFAPAQDWQIDFTHM
19838	50206	A	19954	52	641	RPSKSQTMNLNSLSTALIIISKIYFL PHT*HIYFLLPGSFCYTHSLLSLP QLPLFL/CLDLNAAASHIIDTTPD PHDCISLIHLTFTFPQISFFPVSHIP DHTWFDIGSSTRPNATTHQQRQ AML*YLPHLSLRLPLCLPPLPLS KPN*LP*LPKPSLLQKDYASISILI LNMPFIFCTMQSYGLKEVSSL HKGPSSL MPL
19839	50207	A	19955	3	380	ITPDPHDCISLIHLTFTFPFHISFF RVPHPYHIWFDIGSSTRPNATH QQRQAML*YLPHLSLRLCLCPP PLPLSKPN*LP*LPKPSLLQKDYA SIFILTLNMPFISCTTMQEVSSLIH KGPLSLIPL

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19840	50208	A	19956	154	485	TFIRTHFLTQFPQPCPRHQPSR*L SSSPPAG*TG/IFARLLIFSCLLQI LNHM/QHTLAGQSVLVKNLTP QTLQPRWTGPYLVYSTPT/VRP PAGSSPLGSPFQSKAVSISQPA
19841	50209	A	19957	158	416	ISGTCSNLLGEEVLEERLAAAV QAFGSSRVLEMWLGFSVQWRQ VIVTQKCIWVLLPLYCTP*R QG*LIPVVGFEGQILIFEVFS
19842	50210	C	19958	1	1755	
19843	50211	A	19959	2	394	
19844	50212	A	19960	710	1093	KEPTQHSFSYTHSLSLPOLPLF L/CPDFNPASHIIPDTPDPHDCI SLIHLTFTPPHISFFPVSHPDHT WFTDGSSTRPNATHQQRQDM Q*YLPHELLTLPLCPPPLPSKP NQLP*LRPSLLQKG
19845	50213	C	19961	1	1287	
19846	50214	A	19962	1	1293	MEEPLGFKQLTVVAQQNPLWT SGGGGHSPPSGGHRGVCIITLP VPEGSSQKETHPVSEKLKEKNE SLPGNPENSSSRSERPPRRHSKA RDSDENDPDEDAVVNAVGC LGKNSGFLAPELQKYQKQIKDG TAGTPAISTTTTVEIRKSSVMTT GDHLLSGKKAQRPA PGHSSCPS TETEEKGKRLLYVWVWQVA VNSASQLEAHNSNPVSLSCRI RERPGLWHGYRPSRSLPHSL GSYSLWALRTDTVCD
19847	50215	C	19963	1	846	
19848	50216	B	19964	377	1172	
19849	50217	A	19965	564	1163	FPKSIFFLPDAYTFLFPWLLQL YSLFVESPTTHCSWPRLQSGLP HYSGYHT*PS*LYLSDPPDIHPIS AYFLLSCSSP*SRLIY*WQFHQA *SPHTSKGRCLCYSTSH*PAS*NL SFPFHRGNVSSRK*LLSVPSAIL LLLRDYSGLPSLHIKLRDLPPP RTGKSAIYSTCPESGN*NTSWSR *TLICQS
19850	50218	A	19966	1382	1778	PIGTNTECVVLFQPMETGHSSR VNMSGYK*PC/PPLFGVLSWQN CWRVYFPCLLFGGPLSVMDPE GSPSGC/SNSLGLGADSVTLSTG GVFQPNVRGLNCGKIVMGRC PLEFVPIPATSPISRKPERSTAF

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19851	50219	A	19967	239	737	RPSFKTPENSPTLVPTWTTLFYA LFFSYPHLPISLRPKYFNQICF PDYSWSTATSHCCPSSQSK/CLL CV/SLTSPQYQPLPQDLPSA*SLP L*VPTPLPLEAALRNIAHLSI PPKFNFRSNTSTLFCFICLINIR RQECQASEPRGHRIPCDLHVYI QMA
19852	50220	B	19968	1	1321	
19853	50221	A	19969	1	1069	
19854	50222	B	19970	758	6451	
19855	50223	A	19971	53	319	CSGSMPSSSVSRRPTSPFGSPLLS SPATSSSPKTPPTSATSGSSCPTT GL*MTWTWSGFTGPVKAATWR WTSATYPRWSWRPRAPLCP
19856	50224	A	19972	1427	2103	RPVHGHLHAPVVRDVSVRGLA PSSSPRVPGRDLIKQTPRLRARV VLSPFKTADAASHPGLTQPGR GRMKADISAATPGPFMCRTPL ALGVSTEPSARLVLFVLFCE VLRRLSALSPRLEVLDLGLSL QPPPPGFKQFCLSLPSSWIDYR CMPPWAG/QFLEF*VEDGV*HI GQADLELLTSGDPPASASQSAG ITGVSNRAQPQVSECGHVAL RRQ
19857	50225	A	19973	3	320	VRMVIKKSENRCWRCKGEIG MLLNCW*ECKLVQPVWKT/VD PAIPLLGYPKDYISFYGKDTCT HMFIVALTIAKTGNQPKCPMI DWIKKMWHIYTMEYYAAI
19858	50226	A	19974	2	79	
19859	50227	A	19975	308	630	GREKAREQVDLTFTIAKTWN QPKCPSVIDWIKKIWHIYTMGY YAAIKKDEFVSFAGTWMKL*T VSVEADPHIEGRFFRFKNYASK TPSLKLQRQSRPFQETSHPTGIE KRSPPNLQKATQPHIMSAKEYA FSRKMVGKTRKKGEVKVRER KGKGAGRSDDTYNSKDLEPTQ MPISDRLDKENMDIYTMGYA AIKKDEFVSFAGTMDAENVQ YSSRARTRHWSMKILLQLAR CLPKWPLSFVLESQGLGGVGS

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19860	50228	A	19976	2	508	KTTMRYYLTPVRMAIIKKSENN RCWRGCGETRMLLHCWFECKL VQLLWKTW*FLKDVLPKIPFD PAIPLGGVYPKDYKSCYYKDT TRMFIAALFTIAKTWNQPKCPS VIDWIKKMWHIYTMYYAAIK KDEFVSFAGTWMKLETILSKL SQGQKTKHRMFLSLISGS
19861	50229	A	19977	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DLDPAILPLGGVYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQ
19862	50230	B	19978	1	1899	MIILDAEKAFDKIQQPFMLKTL NKLIGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTQRQCP LSPLLFNIVLEVLAQAIRQEKEI KGIGLQKEEVKLSLFADDMILY LENPIVSAQKLLKLSINVSXVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWQEGEHHTLGPV VGWGKRGIALVDIPNVNDKL MVLVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLSINFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPKDNKKWGNDSL FNKW CWENWLAICRKLKLDPLTPYT KIHRSWIKDLNVRPKTIKLEEN LGNTIQDIMGKDFMTKTPKA MATKAKVDKWDVVKLSFCTA KETTIRVSRQPTWEWKIFA1YPS DKGLISRIYKELQIYRKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSLVIREMQIKTTM
19863	50231	A	19979	1	2142	
19864	50232	A	19980	1	5127	

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19865	50233	A	19981	209	3816	QGRPTFRFRKYREHHKDTPREELQLQDT*SSDSPKLK*KKK*GQPERKVKLPTKGSPD*KIRSRQ/KTLQARRQSWFFEKINKIDRPQARLKKKKREKNQIDTIKNDKGDITTDPTETIQTIREYYKHLIYANKLENLEEMDKFLDTYTLRLNQEEVESVNRNPTGSEIEAITNSLPTK KSPGPDGFTAEFYQRYKEELVPLLLKLFQPIEKEGILPNSFYEASII LIPKPGRDITTKGNFRPISLMNIDAKIL
19866	50234	A	19982	1	1698	MELKAKAQELREECRLSRRCNQLEESVSVMEDMNMKREGKFKREKRIKNEQSLQEIWDYVVKRPNLRLTGVHESDGENGTCLLEN TLQDIQENFPNLRQANIQIEIQRTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWGPINILKEKNFPRIISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRPALQELLKEALNMERKNRDTHRLKIKGWRKIYQANGKQKKAGVAILVSDKTDFKPTKILDKKEGHYIIVKGLIQEELTILNTYAPSTGAPRFIKQVRSDLQRDLDSHTLIIGDFNTPSLTDRSTRQKVNKDTQELNSALHQADLIDYRTLHPKSTEYTFFSAPHHTYSKIDHIVGSKALLSKCKRTEIITNYLSDHSAILKLEIRIKKLTQNHSTTWKLNLLNDYVWHNEMKAEIKMFETNENKDDTYQNLWDTFKVVCTGKFIALNAHKRKQERSKIDTLTSQLKELEKQEQTHSKASRRQEITKIRAEKIEIETQKTL/QKINESRSWFFERINKIDRPL
19867	50235	A	19983	1	3450	
19868	50236	B	19984	1	2265	

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19869	50237	A	19985	1	2526	MFFETNENEDTSYQNLRDTEKVV VFRWKIILNAHKRKQERSKID TLTSKLKELEKQQQINSKASRR HEITNIRAELKEIETQKTLQKIN ESVNWFFEKIIRLLARLIKK KREKNQIDSINKDIEDITDPVE TQTTVREYFKHLYANKLENLEE MDKFLDITYLPSLSQEEVEPLN RPITGSEIEAIINSLPTKKSPPGD RFTAKFYQRIINTEKCLKELME/ PESQSSRTT*RMQKQPESMRST GRKGFSDGR*NE*NE*RGWVN QVGKHSAGYYPGELPQTSKAG QHSDSGNTENATKILLEKSNSK TYNCQIHQS*NEGKNVKGQRE RNTNYHQRIQLQTPLRK*TRKS/K EMDKFLDYTLRLNEEEVESL NTPITGSEIVAIINSLPTKKSPPGD DGFTAELYQQRQTESQIMSELPF TIASKRIKYVGIRLIRDVKDLFK ENYKPLLSEIKEDTNKWNIP SWVGRINIVKMAILPKVIYFRN AIPKLPMPFFTELEKTTLNFIW NQKRAHIANILSQKNKAGGIT LPDFKLYYKATVTKTAWYVY QNRIDEWNTTEPSEIMPHIYN YLIFDKPEKNQWEKDSLFNK WCWENWLAICRKLKLDPLTP YTKINSRWIKDLNVRPKTIKLE ENLGTIQDIGIGDDFMSKTPK AMATKAKIDRWDLIKLSFCT AKETTIRVNRQPTKWEKIFATY
19870	50238	A	19986	1	3723	
19871	50239	A	19987	1	1023	
19872	50240	B	19988	91	1596	
19873	50241	B	19989	1	3171	
19874	50242	A	19990	1	2952	MLLNQGRKLPVFAEETLKFK GTSNKPQTLEQISTSIQAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLEFEQTLNLYLQEFLLTP QWHLECCQERTVHSPGKAAEA REPSVIDRHLIQESSNWHLVGA ALGQSFQRKEQAAIFAVLPQLL VIPRQTGSGVDLQKTPPTDLQQR GLIVRRKTNKQKGIHVHNSTTRE QNWTENEFDKLTGGFKRWVI TNSSELKEHVLQCKEDKNLEK SAIKLELRKLNLIQN
19875	50243	A	19991	1	1797	

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19876	50244	A	19992	1	2367	MVKGSIQQEELTNLNMYPAPNT GAPRFIKQVLSDLQRDLDSHTLI MGDFNTQLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYISDHS AIKLELRKLNLTQNCSTTWKLN NLLLN DYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKVVC RGKFIALNAHKRKQERSKTDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDAIKNDKGDITDPTEIQS TIREYYKHLYTNKLENLEEMD KFLDTYTLPRLNQEEVESLNRP TGAEIVAI/NNLPTKKSPGPDGF TAEFYQRKVEGILPNSFYEAII PKPDRDITTKENFRPISLMNID AKILNKILANRIQQHITKLIHHD QVGFIGMGOQWFNIRKSIRVIQ HINRTDKKNYMIISIDA EKAFD KIKQCFMLKLTNKLKIDGTYFK IIRAIYDKPTANILNGQKLEAFP LKTGTREGCPLSPLFNIVLEVL ARAIHQEKEIKGIGLQKKEEVKLS LFADDMIVYLENPIVSAQNLLK LISNFSKVSQYKINQKSAQFL YTNNRQTESQIMSELPFTIASKR IKYLGQLTRDRKDLFKENYKP LLEKEIKEDTNKWNIPCSWVEK INIVKMAILPKVIYRFNAIPKLP
19877	50245	A	19993	2	2910	WRKIYQANGK/QKKA GVAIVLS DKTDFKPTKIKRDKEGHYIMVK GSIHQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTIIMGDFN TPLSTLDRSMRQKVNKDTQEF NSALHQADLIDIYRTLHPKSTE YTFFSAPYHTYSKIDHIVQSKAL LSKCKRSEIITNCLSDHSAIKLD LRIKKLTQNHSTTWKLNLLLN NYWVHNEMKAEIKMFFETNEN KDTTYQNLWDTFKAVCRGIFIA LNAHKRKQETS
19878	50246	A	19994	1	4729	
19879	50247	A	19995	1	1566	
19880	50248	B	19996	1	2796	
19881	50249	B	19997	127	2479	
19882	50250	B	19998	1	2907	

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19883	50251	A	19999	1	3210	MVKGSIQEEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYVVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
19884	50252	A	20000	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYSLSDHS AIKLELRINKLTQNRSTTWKLN NLLNDYVVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLELEKQEQTTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQI/DAIKN DKRDITDPTEIQTITIREYYKHL YANKLENLEEMDKFLDITYTLP RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKPGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGVFNIC KSINVIQHINRTKDKNHMISID AEKVFDKIQQRFMLKTLNKL LEVLAARVQEKKIKIGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLEKEIKEDVNKWKNNPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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19885	50253	A	20001	1	2314	MDKFLDITYTLPRLNQEEVESLN RSITGSEIVAILNSLPTKKSPPGD GFTAEFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIIPKPG RDTSKKENFRPIPLMNIDAKILN KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVQHTNRA KDKNHMIIISIDAFAFDKIQLF MLKTLNKLGDGMYLKIRRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLFNIVLEVLARAIR QEKEIKGIGLKEEVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTLASKRIKYLG IQLTRDVKDLFKENYKPLLNEI KEDTNKWKNI PCSWVGRINIVK MAILPKVIYRLNAIPIKLPMPFF TELEKTTLKFIWNQKARVAKS ILSQKNKAGGITLPDFKLYYKAI VTKTAWYWYQNRDIDQWNRT EPSEITPHINNYLIFDKPDKNKQ WGKDSL FNKWCWENGLAICRK LKLDPF LTPYTKINSRWIKDLN VRPKTRKTEENLGITIQDIGMG KDFMSKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYA AAKKHMKKCSSLA IREMQIKTTMRYHLTPVRMAII KKSGNNRLFTVAKTWIPQKCA

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19886	50254	A	20002	1	2685	MGDFNTPLSTLDRSTQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRINKLNTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLEKEKQEQTHSKASRRQ EITKIRAELEIETQKTQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLAYANKLENLEEM DKFLDITYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK \RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD

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19887	50255	A	20003	1	2502	MTELTGIQQPQIVLFEHKGHKL VQSSSDAGKVNRIYQHYEAS DKFNYTTGLAWKTAPEQTGKT VRKQIQKLNKVMESRSMQOE HSSPPMEQSWRENDDELREE AFRRSNYSLEQEEIQTKGQEVK NFEKTLDEYITRITNTEKCLKEL MELKAKARELREECRLSRSCD QLEERVSMEDENMEMKREG KFREKRIKRNEQSLQEKWDYV KTPNRLIGVPESDGENGTKE NTLQDIQENLPNLVRQANIQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTTR EYKHLKYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIVAIHNSLPTKSP/GPVGFAT FCQRK/EGILSISFCEASILIPKL GRD'TTKKENFRPISLMTIDTKIF NKILANQIQHHIKLIHHDQVG FIPGMQGWFNICKSINVQHINR TKDKNHMIISIDA EKA FDKIQQL FMLKTLNLKLGIDGTGYFKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLGAIR QEKEIKGVQLGKEEVKLSLFAD DMIVYLENHIVSAQNLLKLISNF SKVSGYKINVQKSLAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLNEIK EDTNKWKNIPCS WVGRIINVK MAILSKVIYRFNAIPNLPIVFT
19888	50256	B	20004	1	2115	
19889	50257	A	20005	1	2382	
19890	50258	A	20006	1	2742	
19891	50259	A	20007	1	2250	
19892	50260	A	20008	1	2982	
19893	50261	A	20009	1	4791	
19894	50262	A	20010	1	2499	
19895	50263	A	20011	1	3259	
19896	50264	A	20012	1	3654	
19897	50265	A	20013	1	2391	

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19898	50266	A	20014	326	1158	LWICEVMVKQRSRLKICLQKQ WQKTLAMWLKPCMGTFLLQL C*LDIAVW/RAIAVHTASSNLVP SLLGLCMIDVVEGTAMDALNS MQNFLRGRPKTFKSLENAIEWS VKSQGIQIRNLESARVSMVGQVK QCEGITSPEGKSIIVEGIIIEEEE DEEGSESISKRKKEDDMETKKD HPYTWRIELAKTEKYWDGWFR GLSNLFLSCPIPKLLLAGVDRL DKDLTIGQMGGKQFQMVLPQC GHAVHEDAPDKVAEAVATFLI RHRFAEPIGGFQCVFPGC
19899	50267	A	20015	1	2860	
19900	50268	A	20016	1	2956	
19901	50269	A	20017	1	3359	MNNSIKEVKVLSLTKWEMQTK PNNNTV/DLKDAQEVNLTSTDY RKQHVMLPTEINSDSLKIGVI RLANWIKSQDPSVCCNQETHLT CRDTHRLKIKGWRKIYQANGK QKKAGVAILVSDKTDKPTKIK RDKEGHYIMVKGSIQEEELTIL NTYAPNTGAPRFIKQVLSLQRL DLDSYTLIMGDFNTPLSTLDRS TRQKVNKDTQELNSALHQVDL IDIYRTLHPKSTEYTFPSAPHHT YSKIDHILGSKALLS
19902	50270	A	20018	3	3130	
19903	50271	B	20019	8	2398	
19904	50272	A	20020	3	3398	SNSHITLTLNVNGLNAPIKRHR LANWIKSQDP/SVSCIQETHLTC RDTHRLKIKGWRKIYQANGKQ KKSTVAILVSDKTDKPTKIKR DKEGHYIMVG*IQ*EELTLNI YAPNTGAPRFIKQVLRDLQRL DSHPIMGDFNTPLSTLDMSMR QKVNKDIQDLNSALHQADLTDI YRTLHPKSTEYTFSPPHHTYSK TDHIVGSKALVSKCKRTEITNC LSDHSAIKLELRKIKLTQNRSTT WKLNNL
19905	50273	B	20021	483	2210	

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19906	50274	A	20022	1	5316	MVKGSIHQEELTILNIYAPNTG APRFIKQVLSDLQRDLDFHTLI MGDFNTPLSTMDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFYSAPHHTYSKIDHILG SKALPSKCKRDTIITNYSLDHSA IKLELRINKLTQNHSTTWKLN LLNDYVWHNEMKAEIKMFFE TNENKDTTYENLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQE TKIRAEQINKIDR
19907	50275	A	20023	2	2712	WRKIYQANGKQKKAGVAILVS DKTDFKPTKJKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPTFI QQVLSDLQRDLDSHTLIIGDFN TPLSTSDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHILGSKALLS KCKRTEIITNYSLDHSAIKLELM IKNLTQNHSTIWKLNNLLNDY VWHKEMKAEIKMFFETNENKD TTYQNLWDTFFKAVCRGKFIAL NAHKRKQERSKIDTLTSQLKEL EKQEQLTSKASRRQEITKIRAE KEIETQKTLQKINESRSRFFERIN KIDR*TLARVIKKKGEKNQIDTI KNDKGDIITDPTEIQTITRESYK HLYANKLENLEMDKFLDTYT LPRLNQEEVESLNRPIITGSEIVAI VNSLPTKKSPGPDGFTAIFYQR YKEELVPFLKLLQSIEKEGILP HSFYEAHILPKPGRDITTK\EN FRPISLMNIDAKILNKILANQIQ QHIIKKLIHHDQVGFIPGMQGW NTCKSINVQIHINRTKDKNHMII SIDAEKAFDKIQPFMLKTLNK LVLEVLARAIHQEKEIKGIQLGK EEVKLSLFADDMIVDLENPIVS AQNLKLLISNFSKVSQYKINVQ KSQAFLYNNRQTESQIMSELA FTIASKRIKYLGIQLTRDVKDLF NENYKPLLNEIQEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF

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19908	50276	A	20024	1	4461	MVASRSSRVGVFYGGQNSVDG VSRSDGSLNELCLYRPPGAY LAYDTLDVLPQGQFTVNTPPID VNGKSLALLWEHTSLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDGRSRRLLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWHSRLPEVQGGTGVTPSE TIPIDRKEGILPNLFDEASILIPK RGRDRTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWENICK
19909	50277	B	20025	1183	4247	
19910	50278	A	20026	1	2671	MVKGSIQEEELTILNIYAPNTG APRFIKQVLSLDQRDLDSHTLI MGDFNTPLSTLDRSTRQVKNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNLYSDHS AIKLELRJKNLTQSRSTPWKLN NLLNDYVWHNEMKAEIKMFF ETNKNKDTITYQNLWDAFKA CRGKFIALNAYKRKQERSKIDT LTSOLKELEKQETHSKASRRQ EITKIRAELEIETOKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGIDTTPTEIQ TTIREYYKHLYANKLENLEEM DTFLDYTLPRLNQEEVESLNR PITGSEIVAHNSLPTKKSPGPDG FTAEFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQQGNQAGEGNGKY SIRKRGSQIVPVCV*HDCLSRKP HRLSPKSP*ADKQLQQLRIQN QCTKITSILHQKQTNREPHE* TPIHNCFKENKIPRNPTYKGCEG PLQGLQTTAQRNKRGHKQME EHSMLMGRKNQYRENGHTAQ GNLQIQCHPLQATNDFLHRIGK NYFKVHMEPKKSPHRQVNP KEQSWRHHTT*LQTLQGYNSQ NSMVLVVPKQRYRSMQNRAL RNNAAYLHYSDL*QT*EKQA WGKGIPYKMA\GKLAS\PM*

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19911	50279	A	20027	1	3159	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLIDYRTLHP KSTEYTFSSAPHHYTSKIDHVV GSKALLSKCKRTEIHTNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLNDYVWHNKMKAIEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTSHKASRRQ EITKIRAEKIEITQKTLQKISES WSWFFEKINKIDRPQARLIKKK REKNQIDTIKND
19912	50280	A	20028	2	3767	HLRANWIKSQDPSVCCIQEAYL TCRDTHRLKIKGWRKIYQANG KQKAGVAILVSDKTDFTKPTKI KRDKEGLYIMVKGSIPEELTIL NIYAPNPEAPRFTKQVLSDLQR DVDSHTIILGDFNTPLSALDRSM RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFSSAPHHY SKIDHRVGSKALLSKCKRSEIIT NCLSDHSAIKLELRIKKLTQNC TTWKLNNLLNDYVWHNEMK AEIKMFFETNEN
19913	50281	A	20029	3311	9648	KLYVCITRITNAEYLKELMEL KAKAQELCEECSRLSRHDQLE ERVSVMEDQMNMKQEEKFRE KRRKRNEQSLQEIWDYVKRPN LRLIGVPESDGENGTLENTLQ DIIQKNFPNLARQANIYIQEI QRTPRQYSPRATPRHIIVRFTK VDMKEKMLRAVREKGFKPTKI RRDKEGHYIMVKGSIQEEELTI LNIIYAPNTGGPRFIQVLSDLQ RDLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQEL
19914	50282	A	20030	2031	6332	QDSNSHITLTNINGLNAPI*R HIDRNCNWKSQDPSVCCIQET HLTCRDTHRLKIKGWRKIYQA NGKQKKKAGVAILVSDKTDN PTKIKRDKEGHYIMVKGSIQEE ELTILNIYAPNTGAPRFIKQVLS DLQRDLDSHTIIMGDFNTPLS TLDRSSRQKVNKDTQELNSAL HQADLIDYRTLHPKSTEYTF SAPHHYTSKIDHIVGSKALLSK CKRTGHTNYLSDHSAIKLELRI KNLTQSR
19915	50283	A	20031	2	178	
19916	50284	C	20032	88	228	

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19917	50285	A	20033	3	382	VDRTIMSDSLVVCVDPELTK LRKFRFRKETDNAAIIIMKVDKD RQMVVLEEEFQFVVYSKYV HDDGRVSYPLCFIFSSPVGCKPE QOMMYAGSKTRLVQTAEITK VQTGMWLQSVRERWCGSWV
19918	50286	A	20034	89	633	KTAE LRKEACGQNNHALPGS LRQSDSLVVCVDPELTKLRK FRFRKETDNAAIIIMKVDKD/RG QMVLVEEFQNI SPQREL/KMG FPRRDKPR/FVVYS/YKYVHD/D GARVSYPLCFIFPRPVGCKPEI QOMMYAGSKNRLVQTAEITK GVPKSRIT*LTSLRPWLQEKLS FLSLISGAGD
19919	50287	A	20035	78	638	WLDLTWKESSADSQFLFKMD HSHHMGMSYMSDSNTMQPSH HHPTTSASHGGGDSMM MPMTFYFGFKNVELLFSGLVIN TAGEMAGAFVAVFLVAMFYE GLKIARESLLRK SQVSIRYNSMP VP/GQNG/TILYGRTHKTVG/QQ MLSFPHLLQTVLHHQVVISYFL MLIFMTYNGYLCIAVA
19920	50288	A	20036	1	849	MSQKMENLIGNAHISAYEIIKEF QKEQHQA GLPGTTVPCSCQVY KCSKRP ERVAREGPSEDEPLP QTVRKCGQGCTLHGAGGSGQG VGARPF GIGVEALWFLASPSY WAPLIPQCQLGKLLVVRVLQV QARRELAPMLAPGAACPMVAT ACLTVQWDPMLTHTPLTIPHL TCSLLGGNVELLFSSLVINTAGE MAGAFVAVIILA VFYEGLIAQE SLL*PNGTILM*THKTVGQQML SFPHLLQTVLHHQVVISYLLMLI FMTYNGSSELLFRGERPR
19921	50289	B	20037	308	568	
19922	50290	A	20038	394	528	
19923	50291	A	20039	186	856	TWKGKDILRRPRRKMSY/SHF FVQTCRGGHKKKHPRLQVN/ FSEFSKEVLQRGWRPMSCLKR KGKILKIWAKAGQGPFLERELK TLYPLPKGEDQKKKFKDPNCTP RGPPSAFFPLLALEYPPQKSKG EHPWPVPLVDVAEENWETMW ELTLQMDKQPYEKKA'AKLK EKYEKDIACISLLKGPDAKK RELSRPEKSKKKKEEEDDEDE EDEEEDEDE*DEDEEEDEDE

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19924	50292	A	20040	1	413	GAMRGDRGRGRGGRFGRSGGP GGGFRFPVPHIPDFYLCEMAF RVKPAPEDETSFSEALLKRNQDL APNSAEQASILSLVTKINNGNE KLAVGSGTLKAHIEKFTRGIPY KRGTVSRGHNVDLGGKLKILA PPLEAV
19925	50293	A	20041	70	1451	GAMRGDRGRGRGGRFGRSGGP GGGFKPFVPHIPDFYLCEMAF PRVKPAPEDETSFS*GLA*RRNQ DLAPNSAEQASILSLVTKINNN VIDNLTCSQGHFEVAKLEEV RQVGDPKIRGTMITGHNV*/L WVVIQEFWQRLAEVACPGGN KVVESLR/SHQDPSESFKPCLTN EVTGFEISSDATVKILITTVPPIN LRKLDPELHLDIKVLQSALAAI RHARWFEENASQSTVKVLIRLL KDLRIRFPGIPELTPWILDLGL HYAVMNNPTROPLGLKRWHN RALAWQISGLAGTVSCQGSVG YSIDPCESWQL*ELHTVMTLEQ QDMVICYTAQTFVRILPHGGF RKILGQEVDSYLAISEISTWD GVIVTPFRKRLYEKPEKKEG EEEEENTEEPTSRGRGRK/HGN SGVTIPLPLFPNPRGKTGALSC PAYWALHGDRHFPWDREDSRK
19926	50294	A	20042	253	379	
19927	50295	A	20043	284	1062	APRNYLPQRATASVRRQISFS NEHTPHQSLHEIPNVRQRHSL MKLNTMGAMTSTTSAVANH* PSNKRTPLVSV/MQASPEQRQ AVRERMQTNPKIQRRREARE RIQSASPEQRQAVREKMQTNPQ NQQRDAARERIQSASPEQRQV FKEKVQQRPLNQQRDNARQR VQSASPEQRQVREKVQESRPQ RLNDSNHTVRLNNEQRSVACE RLSERGARRLESYGRHMQAN PEPPKKNNDKSKKISKPLAAK

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19928	50296	A	20044	1	2269	MSPDIPQVSPEVGLYPVANHSSI VVP TCHLS EEDTEAQRNHELD TVKALREDAQVLKIPNQSPKDT LVTALQLAQKGTKAAAIRLGA KVGQKQSRQAKSSPALVVPGL LSFPRARFFFEWQSPGLPNTAAM ENG TGPYGEERPREVQETT VTE GAAKIAFPSANEVFNVPVQEFN RDLTCAVITEFARIQLGAKGIQI KVPG EKDTQKVVDLSEQEEE KVELKESENLAGDQPRTA AV GEICEEGLHVLGLELAASGLRSIR FALEVPGLRSVVANDASTRAV DLIRRNVLNDVAHLVQPSQA DARMLMYQHQRVSERFDVIDL DPYGPSATFLDAAVQAVSEGG LLCVCTDMAVLAGNSGETCY SKYGAMALKSRACHEMALRIV LHSLDLRANCYQRFVPLLSIS ADFYVRVFRVFTGQAKVKAS ASKQALVFQCVGCGAFHLQRL GKASGVPSGRAKFS AACGPPVT PECEHCGQRHQLGGPMWAEPI HDLDFVGRVLEAVSANPGRFH TSERIRGVL SVITEELPDVPLY TLDQLSSTIHCNTPSLLQLRSAL LHADFRVSLSHACKNAVKTDA PASALWDMRCWEKECPVKRE RLSETSPA FRILSVPEPRLQANFT IREDIANPSSRQGLKRFQANP EAINWGP RP RSRPGGKA ADEA MEERRLQLNKRKEPPEDVA
19929	50297	A	20045	1578	2356	PLRRWACNHKL RQNAHQLSSTI HCNTPSLLQLRSALLHADFRV LSHACKNAVKTDA PASALW DIMRCWEKECPVKRERLSETSP AFRILSVPEPRLQANFTIREDANP SSRQ RGLKRFQANPEANWGPR PRARP/GVSGGKVGVL SQGKK G* RADGVPTTPSPSHRGKA ADE AMEERRRLQLNKRKEPPEDVA QRAARLKTFPCKRKEGT CQRG DQCCYSHSPPTPRVSADAAPDC PETSNTQTPPGGAAAGPGID

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19930	50298	A	20046	1	791	MGPSIIHSSQHATAPQILPKVR AGPRSSGCRISECRREEKPPKGR RGLKDATRPGVNWGPDGGVQS GAGAQPWSLTLP PGSVSPAGR AQRSMRAAAQERSPGRRL GKEPLIRESWTRAPWRCLSQD AGRAGSQVCGSSPQTRGAAAE KVAVTGAKSCSGRGKKAAR AKSRGGGGGRKTQKAAAKSRG C/AGQSPKSRGSRG*IPRGRGQ KAAVAGAESNGGGGKSRRL HKAAKTRSSGKPNWRQKAAS AGAK
19931	50299	C	20047	76	327	
19932	50300	A	20048	336	814	ANFSLEDPSCSPPRLLAGSFVD SPQSLSCMRSKNPLIGSGGPLS PTYIL*ATTPHLLPQLITTSPPS PSPPSPPLPPPPFSFSSYSSSFF E/NRVPLCCPCFGSAIRKPSPSVS TKARPQGETGRSLALLFLPQRP SSSLHRSDTLYRDCVHRI
19933	50301	A	20049	1	310	
19934	50302	A	20050	1	1482	
19935	50303	A	20051	3	2455	
19936	50304	A	20052	3	1441	

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19937	50305	A	20053	1	2322	MAEKGKEAGTFFTGQDDRLLF VFFIITIVVGLFRCSVFSSSSSSSS LSSSSSSSSSSSSSFLHLFFIFIF VFFVFIFVFIFVFVFAFFIFFVF VVFFVFFVLLVEILMRPTISIR GQKLKISDEMSKDCLSLYNTC VCTEGVTKRLAEKNDFVILFT LMTSKKTF\QTATLIEDILGVK KEMIRLDEVPNLSSLVSNFDQQ QLANFCRILAVTISEMDTGND KHTLLAKNAQKKSLSLGPSA AEINQAALLSIPGFVERLCKLAT RKVSESTGTASFLQELEEYWT WLDNALVLDALMRVANESEH NQASIVFPPPGASEENG\LAHTS ARTQLPQSMKIMHEIMYKLEV LYVLCVLLMGRQNRQVHRMIA EFKLIPGLNNLFDKLIWRKHS ASALVLGHGHHY\CDSPDITL\ KIQFLRLQSFSDHHENKYLL NNQELNELSAISLKANIPVEAV LNTDRSLVCDGKRGLLTRLLQ VMKKEPAESSFRF\WQARAVEE FPSRGTTSYADQMFLKRG\GLL EHILYCVDS\ECKSRDVLQSYF DL\LGEL\MKFNVD\AFKRFNKYI NTDAKFQVFLKIQ\NSSLVDSN MLVRCVTLSLDRFENQVDMKV AEVLSECRLLAYISQVPTQMSF LFRLINIIHVQTLTQENV\CLNT\ SLVILML\ARRKERLP\YLRLL\ QR\MEHSKKYPGLL\NNFHNL

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19938	50306	A	20054	237	2033	TSPTPLPLPATMPKTSIVRVTTM DAELIEFAIQPNTTGKQLFDQV VKTIWLEGGFGFFGLQNQDTN GFSTWLKLNKKVD*PRNVRKE \SPLLFK\RAKFYPIEDVSEELIQ DITQRL\FVLQVKEGILNDDIYCP \PETA VLLASYAVQSKYGDFNK EVHKSGYLAGDKLLPQRVLEQ HKLNRD\QWEERIQVWHEEHR GML\RGEDAVLEISERLLQDLE MYGVNYFS\KNKKGSELWLG VDALGLNIYEQNDRLLTPKIGFP WSEIRNISFNDKKFV\IKPIDKK APDFVYAPRLRINKRILALCM GNHELYMRRRKPDITIEVQQMK AQAREEKHQKQMERAMLENE RKKREMAEKEKEKIEREKEEL MERLKQIEEQTKKAQQELIEEQ TPRAPGTL\SQERKRAQSEAEKL AKERQEAEEAKEALLQASRDQ KKTQEQLALEMAELTARISQLE MARQKKESEAVEWQQAQMV QEDLEKTRAE\KTAMSTPHVA EPAENEQDEQDENGAEAS\ADL RA*SMAKDRSEERTTE\AEKN ERVQKHLKALTSELANARDES KKTANDMIHAENMRLGRDKY KTLRQIRQGNTKQRIDEFESM

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19939	50307	A	20055	2	2230	PRVRLGAHGCPGPPGRRCCGW ANGLRSSERCVLRLPCVQSA TRGLRCGCDSAANLDTMAKPP QGAGDRGSIHDFPGFDPNQDAE ALYTAMKGFSGDKEAILDIISR SNRQRQEGCHSYK\SLYGK\DLI ADLK\YELTGKFERLIVRLMRP PAYCDAKEIK\DAISG\IGTDEK\ CLIEILASRTNEQMHQLVKRITK MPTERDLEADIIGDTSGHFQKM LVVLLQGTREDDVVSDELVQ QDVQDLYEAGELKWGTDEAQF IYILGNRSKQHLRLVFDEYLT TGKPIEASIRGELSGDFEKLMLA VVKCIRSTPEYFAERLFAKMG LGVTRDNTLRIMVSRSELDMLD IREIFRTKY*\EKSLYSMD\IKND TSG/QSYKTLTKLSSGDDDA DQFFPKAAQVAYQMWELSAV ARVELKGTVIRPANDFNPNAD AKALRKAMKGLGTDEDTIIDII THRSNVQRQIRQTFKSHFGRD LMTDLKSEISGLARLILGLMM PPAHYDAKQLKKAMEGAGTDE KALIEILATRTNAEIRAINAEAYK VEDYHKSLEDA\SSDTSGHFRRI LISLATGHREEGGENLDQARED AQVAAEILEIADTPSGDKTSLET RFMTILCTR/SYPHVRRVIQEFIR LTNYDVEHTIKK\EM\SGDIRDA FVAIVQ\SAKTKPLFFPDK\LYK SMKGA\GTDEKTLTRIMVSR\G
19940	50308	A	20056	3	368	
19941	50309	A	20057	1	936	MMKCEEQKEEEEETVRMFSA SQPLDPDGTFLRLRFTAMVW AITFPVGFFFCIIWSLVHFHEY VATDCGVSSAPAGSGPGVNP YLPSVSSAIGGEVPQRYVWRFC IGLHSAPRFLVA\FAYWNHYLS CTSPSCYRPLCRLNFGNLNVVE NLALLVLTYSSESDFTHENAF IVFIASSLGHMLLTCLWRLTKK HTVSQEVRSIPSGGSKAAQKKI KDICPDQSGNGEDRKSYSWKQ RLFIINFISFFSALAVYFRHNMY CEAGVYITFAILEYTVVLTNMA FHMTAWWDFGNKELLITSQPE

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19942	50310	A	20058	119	930	ESLFPSLAFLSPSKPLFSHPSPSFH LSNKQDTPSCSCVLSSPFLSLRTE ASIGVPGIKMDGGNAQEHGHFL RLPQVPNYLPSVSSAIAREVPRQ YVWRFCIGLHISAPRFLVAFAY WNHYSCTSPSCYRPLCRLNF GLNVVENLALLVLTYSVSSDEF /TWVPG*GRSGEVFPEGTGLPLP HSDLPTSWCGHSLQCGSQSSFP PAIHENAFIVFIASSLGHMLLTCL LWRLTKKHTVSQEVRSIPSGGS KAAQKKIKDICPQDSGNGVEGT EF
19943	50311	A	20059	3	206	
19944	50312	B	20060	80	304	
19945	50313	A	20061	1	2111	MAATGTAAAAATGRLLLLLV GLTAPALALAGYIEALANAGT GFVAEPQIAMFCGLNMHVN IQTGKWEPTDPTGKSCFETKEE VLQYCEMYPQLQITNVMEAN QRVSIDNWCRDDKKQCKSRFV TPFKCLVGEFVSDVLLVPEKCC FFHKERMVCENHQHWHTVV KEACLTQGMTLYSYGMILLPCG VDQFHGTEYVCCPQTKIIGSVS KEEEEEEEEEEEEEDEEDYDV YKSEFTEADLEDFTEAAVDED DEDEEEGEEVVEDRDYYYDTF KGDDYNEENPTEPGSDGTMSD KEITHDVKVPPTPLPTNDVDVY FETSADDNEHARFQKAKEQLEI RHRNRMDRVKKEWEEAELQA KNLPKAERQTLIQHFQAMVKA LEKEAASEKQLVETHLARVE AMLNDRRRMALENYLAALQS DPPRPHRLQALRRYVRAENKD RLHTIRHYQHVLAVDPEKAA/Q MK'SQVMTHLAHVIEERRNQSL LLYKVPYVA/QEIQEIDDVLQ EQRADMDQFTASISE/TPVDVR VSSDESEIIPPFHPFPAPT* ERRILGVGRAGWGGLIGAEKE VINSKINKVDEINMVH*TRLLD VKEMIFNAERVGGLEEEERESV GPLREDFSLUSSALIGLLVIAVA IATVIVISLVMLRKRQYGTISH GIVE/VVDPMLTPEERHLNKMQ

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19946	50314	A	20062	61	2634	SQPAEGK\WSTGNAATATAGVL LLPAACGA*TAPALAL\AGYIEA LAANAGT\GFAVAEPSNSPMFC GKLNMP\CE\TFQ\TGK\WEPADPN QAPKSCF*NQKEEVSSSYF\QEM YPRAYRSQNVMEAKPAGL\RID N\WC\RRDKKQ\CKSRFCYTFSS CLVG*IL*SDVPAKFPEKVP\SF HKERMV\ECENHQ\HW\HTVSQ KKAMS*PPGK*PLIIANGMPASP CGGR\TSFHGTE\YVC*PSAQRLL GSCV\TKEEEEEEE\KEEEEEDE KGD\YAVYKGNFLL*ADLEDST EA\A\VEDDEDE\REGEDV\VEDR EYY\YDTFKGDDYNEENPN\DPG SAATMSD\KEITHD\VKAVCSQE A\MTG\PCRAVMPLWYFYLSKG KCVRFIYGGCGGNRNNF*SEDY CMAVCKAMIPPTPLSTNDDV\F F*TSKDDNEHARFHKAKEHVVI RPRNRMDRLK*EW*YAQL\QLK \NLPKAE\Q\TLI\QH\FQA\MVKA I\EKAA\SEKQ\LVET\HTLARV EAMLND\RC\LMALENY\LAALQ SDP\PRPHR\ILQALRRYVRAEN KDRLHTIRHYQHVLAVDPEKA AQMKSQVM\THLHVIEERRNQ SLSLLYKVPYVAQEIQEIDELL QEQRADMDQ\FTASISE\TPV\DV \RV\SEGRGEIPFHPFHPFALP ENEDTPQVLYHPMKKSGVGVE QDGLIVAEK\VIN\SKN\KVDE
19947	50315	A	20063	734	1049	CCPPGGTGRCLGTCGYHN\CGC SI*SSDLPQR\CCVSGRR*TFWM VWSACVCASGCLPGGNRCCCP VLS\PERIAVLGGLLPRKPPCRV VGERRSVLTLQATSQ\CPR
19948	50316	A	20064	6	1174	
19949	50317	A	20065	285	567	RRRRSSSYERSGSYSGRSPSPYQ RRRRSSPFLSKRSLRSPLSPRK MKSRSRSPAYSRRHSSSHSKKKR SSSRSRHSSISPVRLPLNSSLGAE LSRKKKERAAAAAAAKMDGK ESSYERSGSYSGRSPSPYGRRRS SSPFLSKRSLRSPLSPRKSMKS RRSRSPAYSRRHSSSHSKKKRSSR SRHSSISPVRLPLNSSLGAE\LSR KKKERAAAAAAAKMDGKESK GSPVFLPRKENSSVEAKDSGLE SKKLPRSV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19950	50318	A	20066	214	805	LGLQAANDLHLEYAMGKRYFC DYCDRSFQDNLHNRKKHLNGL QHLKAKKVWYDMFRDAAAIL LDEQNKRPCKFLLTGQRDFG SNCRFSHMSERDLKELSIQVE EGRGEPREWLLDAPELP ¹ EGHL GGLGLEERRAKRLELQPQVSQ G*NPFRIT/VSFQ*PRRVGQPSS GSLPPNSCGHPPPGGLALLQPR V\QWG
19951	50319	A	20067	2	418	
19952	50320	A	20068	1	1134	ATTARRRGAPGTPSLAAEGNGL SARVDEGVVEFFSKRLIQDRL WAPEEDPATEGGATVPVRTLRLK KLGTLFAFKKPRSTRGPRTDLE TSPGAAPRTRKTTFGDLIRPPT RPSRGEELGGAEGDTSSPD ¹ PAG RSRPPTQEIARPTR*YCCLPRRR QRWVPDPTSGPWSGEKQNLW HPLNSGYK*CCRG*ASAEAAGV PKARGSKAKMARSRLAQMV TLWTVPRRPLPSRSSPAPT/PVS ADPSCRPGPGSQGPESATWKTL GQQLNAELRSRGWGQDGP PSPGQSPSPCRTSPSPDSLGLPED PCLGPRNEERPLRLQRSPLVLR RPKLEAPPSPSLGSLGTETPLPP QPTEPSSPERSPPSPATDQRGB
19953	50321	A	20069	3	206	
19954	50322	A	20070	3	349	
19955	50323	A	20071	226	610	
19956	50324	B	20072	18	1306	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19957	50325	A	20073	3	1665	LRPQGGREGDWEGRSPFSLPY GSLRGRVSTAQFRVPMPSASA SRKSQEKPREIMDAAEDYAKER YGISSMIQSQEKPDRLVLRVRD LTIQKADEVVWVRARVHTSRA KKGKQCFILRQQQFNVAQVA VGDHASKQMVKFAANINKESI VDVEGVVRKVNQKIGSCTQQD VELHVQ(KIYVISL)AEPRLPLQL DDAVRPEAEGEEGRATVQNQD TRLNDRVIDLRTSTSQAQVRL/Q SGICHPLRETLINKGFVEIQTPI ISAASEGGANVFTVS YFKNNA\ YLAQSPQLYKQMCICADFEKVF SIGPVFRAEDSNTHRLTEFVG LDIEMAFNYHYHEVMEEIADT MIVQIFKGLQER/FQTEFQTVNK QFPCEAISNFWPTLRLEYCEAL AMLRGKLESEMGVDEDDLSTPN EKLLGHLVKEYDT'DFYILD KYPIGL*RPF/HLYPGP**PPRNPQ QVPTLTNMFHEREKKYLSGAQ\ RIHNDPQLALTERALHHGNDLEK IKAYIDSFRFGSPSP/HAGGGIGI/ ENRVTMLFLGLHNVRQTSHPV
19958	50326	A	20074	3	424	
19959	50327	A	20075	178	859	
19960	50328	C	20076	304	592	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide locatinn of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
19961	50329	A	20077	1381	2936	PTNPRPSPGLARWAESYEAKCE RRQEIRSRRCRPNVTTICRQVG KTLRIQQREQLQARLQQFFRR RNLELEEKGAQHPQAREQGP SRRPGQVTVLKEPLSCARRISSP REQVGRVKGHATAVCSGTLSSGQ GGWV/R/PPSLHRAKRES*DNC PSSLALTLSPHSSSLERTQ*/SH ALTFWNSMIYPRSSRLILPQASD SSW/KGGKGMKFFLNKA WASMC SHLIFLSTGKHSEGYFHLRNLEL NEKNVFEPKAKESLQKVLEEK MNAEQQLQSTQVWGCHIDMG LGTGSLGNKGSQQLQRTLTGTH RELESQHLVQLQSKLQVPGTGGG EGROGMGRDGDERSCSAKIE CLQGDRDLCSLDTQDLQGTLL GGLECMAMAK*AKKKETEAF QILKVHRVFLGSWPTKGTQVW SPKSFNVEVEPGTGKEKDWDL RDQLQKKTLQLQAKEKEVRG* PEIVRAHLRNSRETWEAVKNCR EELNQSQLPPRVGRSLLPIKP WMMGRFLL*PSFAHKDNLMI
19962	50330	B	20078	1	1173	
19963	50331	A	20079	16	1584	SSRFLFSLGWLWEAPEVGTSG WLQRRPGLGAGLGGQEQEKFL PALLSFFIYNPRFWPREGEEENK ILFYHPNEVEKNEKIRNVGLCE AIVQFTRTFSPSKPAKSLHTQKN RQFFNEPEENFWMVMVVRCP IEKQSKDGKPVIEYQEEELDK VYSSVLQRCYSMYKLFNGTFPE SHGRRR/VKLLKERLEKFFHRY LQTLHLQSCDLLDFGGISFFPL DKMTYLKIQSFNRMEESLNIV KYTAFLYNDQLIWSGLEQDDM RILYKYLTTSLFPRHIEPELAGR DSPIRAEMPNGLQHYGRFLTGP LNLNDPDAKCRFPKIFVNTDDT YEELHLIVYKAMSAVCFMID ASIHPTLDFCRRRTGTASLGPQL HSGWASGHLVEQFNINKGDVP GLRKEPQFKFIYFNHMLNVEK STVHIEENAPACPLTSVHPDLAM KIPR*PSNSDLYPRVDEDEGDH C*RALSDYWWVVGK/KSDPAGS LYVIFEIQKNAKP*LKVK*KRSK KPLCNASSNNILPSLD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
19964	50332	A	20080	85	420	LSNLFHATNDGALTSTTIPHP MRQPTS/S/GDGSEIFLHTELKLL EPHAWPQSCPPRL* MTRQQLL PMTFLLKAHSGAGIESPGLNPR PGSLHPVLPAASSAAFLPSFR
19965	50333	A	20081	220	563	
19966	50334	B	20082	1	576	
19967	50335	A	20083	111	3586	TMFGLKPPLYFLPGSSLSSESSP VSSPATNHSSPASTPKRVPMPGI IVPPGGHSPSTPPVVTIAPT KT VNGVWRSESRQDAGPRSSSGG RERLIVEPPLPQEKAGGPAIPSH LLSTPYPFGLSPSSVVQDSRFPP LNLQRPVHHVPPSTVTEDYLR SFRPYHTTDDLRMSSLPPLGLD PATAAAYYHPSYLAPHFPHPHA FRMDDSYCLALRSPFYPIPTPG SLPPLHPSAMHLHLSGVRYPPE LSHSSSLAA
19968	50336	A	20084	576	1261	GDDLCSVGAPCRSTWACSTPLR CVRRSREFPLPHAAAGAARGFR LPAGRPVPARPGAAAAAARAAA GEAHRPLPCGRRPGPVRRAAVP PRPRPPRRGLRGRREGPAAPAG PGGPSLLCASAGRHGPPGLRAG QGLRDSAGEAGGEPAP/AGPRP EASP*RSSLCENTCTEAGLGPRR AAGDLGSPWLTSGLLWGSFFLF FLFFFVILRQSLLSPKTEVAVA QLMSHCSL
19969	50337	A	20085	248	356	EGEEEGDEENDPDIMTQRRIKT QQSASSSEAGCMWP
19970	50338	A	20086	1043	1191	NFYFSCKNKNKANKQKITWK KGLSNGCKFILSGGRQKGRITLP QRERMA

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19971	50339	A	20087	287	1401	CQNPQIPCSPFKKRLDG/LWVET PTGYIESLP/RVVKRR/VNALKN LQVKCAQIEAKFFE/EKVHGFEE RKYAVLYQPLFD/KRFEIINA YEPTE/EKECEWETR*RKDEDF GGNWKEKGQIEDEKKDEEKE DPKG/IFPEFWLTVFK/INVDLLS DMVQEH/DEPIKHL/KDIKVKF SDA/GQPMFVLEFHF/EPNEVF TNEVL/RTYRMRSEP/DTRLIL DPFSFDGPEIMGCTGCQIDWKK GKNVTLKTY*GGGRKHKGRGT WRTVTKTIVS/NDSESNFFPP/PE IPE/DVGDLDGAGSLFLAGRLS EIWFTFYRERIIPRSSVNILPGEA/ IEDDDDDYDEEGEEADEEGEEE GDEENDPRLLTQR/RIKTQQSAS
19972	50340	A	20088	1	350	DNLEAEA VAPCTAAARAVAPD LFVFAA*PESVSAGGPQPCRS IVKPLPSFRPSSCTQPWLTHSW AEDVDLRVNFAMNVGKARGFF KKGDVVIVLTGWRPMSGFTNT MRVVPVP
19973	50341	A	20089	1	399	
19974	50342	A	20090	1	394	
19975	50343	B	20091	82	351	
19976	50344	A	20092	3	789	CGTSRMCHTTEELA/SDPIL/YRP LAVALDTKEPEI/RNGLIKSGGT SEVELKKGATLKFRNNAY/ME KCDENILWLDYKNICKVVEVG SKIYVDDGLISLQVKQKGADFL VTEVENGSLGSKKGVNLPGA AVDLP/VSEKDIQDLKFGVEQD VDMVFASFIRKASDVHEVRKV LGEKGNIKNIISKIENHEGVRRF DEILEALGHWA/VPLKPTLALA LTCFSSSLGLSSLHLSPPSTQLSC SKHSTLHLPFSPTTAAAPGLLL
19977	50345	A	20093	3	424	
19978	50346	A	20094	2	173	IYHLQLFEELR/RLAPITSDPTEA TAVGAVEASFCKCSGAIIVLTK SGRSAHQQLGP
19979	50347	B	20095	1	1362	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19980	50348	A	20096	1	1982	QRDNLEAEAVAPCTAAARAVA PDLRLCSVRPSRAPEDRQQP CLFSHSEAGTAFITQQLHAAI MADIT/LWEHMCRL/DIDSPIT ARNTG/IIC/TIGGPLDQVETLK EDD*SLGMKCGSVLNFSSWEL HGVTRMRETIQGMWRTANGKA FAFLTPFLPGPLAVGFRTLKGP EIPNWGSSKNGTVAEVGA*RK GATLKFTLADNAYMEKCDENI L/WLDYKNICKVVEVGISKIYV DDGLISLQGGKQ/GADFLVTEV ENGGSLGRMKGVNLP/GAAVD FACLCRRKDIQDLKFGVE/QDV DMVFASFIPQSILMFHEVRKVL GAEKGKDHQGLSSKIRESMRGF RRFDIEIL/EASDGI/LWVARG*F *ALRIPAEK/VFLAQKMIDLDRF NRA/GKPVICATQMLESMIKKP RPTRA/EGSD/VANAVLDWKPT CIMLSWEKQPKGDYPL/EAIVR MQHL/AIAREARWLPSYHLQLFL EELRPPGAQLTSDPTEATAVGA VEASFKCCSGAII/VLTSGKVC SPRLARYRPRPIIAVTRNSPGK LVRAHL/YRGIFPGVCQGPDSR RAWA*DIGLRVKLCHGMFGK ARGFFQERGDVVHCA*PEWRP WLPAPPNMRVVPCCRDGPRG PSSSRPCSHFFPKPIPFPSNGL VELHSGAVNVATG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19981	50349	A	20097	215	1893	TVTFSCQRFQKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTLEFSRLRFREF VYQEAAGPHQTLARLHELCRQ WLMPEARSKEQML/ESLLVLEQ FLGILPDKVRPWVVAQYPESCR SLLVEGLADVLEEPGPSTVDR DAAGLPCGLILNS*RWSVREAH GPSAATRRAREPQGPWSWG PGTF*DTLAFSGPPVSGTEEGQ/ MKQRPKRTALP/HTEQVGGHE QVGGRSQ/RTTNVSEAEVLSRG PSAPGGVGGPPGPCVEENLKSRYK LLLWEGRRQESAGCACEEAA PAG/GCLSLRRRPLGTPLPIPRR AH*GGGRAAWEGPGPAGPPGR GVRLCHRIAEAVRHPAACP/ET GARRNWEPGRTPRMGTGRAS RA/CSSGDSAGLEAGQGPAD EPGLSRGKPYACGECGEAFW LSHLMHHSSHGGRKRYACQG CWKTFHFSLALAEHQKTHGKE KSYALGGARGQPSTREAQAG ARAGGPPEVVEGRGSPRTPRGA EVSRCAPFRGRGFAGRESQTR HWAFFRPWVAASCGVCGRPLP
19982	50350	A	20098	5	372	
19983	50351	A	20099	1	129	
19984	50352	A	20100	1	627	
19985	50353	A	20101	1	441	
19986	50354	B	20102	1	477	
19987	50355	A	20103	2007	2156	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19988	50356	A	20104	1	717	MKLRRLAVSVTALKVARLGSA PSDVQMCLEFLPSDSGAQLASP SGSRTGAAGGAACQSGAVRSY SSALGWSMGLGAVEQGVVLV GDARAAQEPMEWMGGSGMAG CRSRALHRGKA AKARREIEHSA GRKGLFGSARLIPATAMAPRSR LLSLGRRGNFRSRVLRKRSRPL EEAARRWRDCPTGFGALVAGA GSGRAPGVPPKRLPARTKAQVS RETRGSGEVT AQGGKGPRGLW ILLWGFYNLLPTTSHAESYPERL IQKVVSSEKIARALARYLHLPFG LLGGNKTI VYSWEALRFHHQLT PSVITNTVIK VYEEPKLSQQKSR TLDVSTDEEDKIHHSSESKDDQ GLSSDSSSSLGKELSSSTVKIPD AAFIQAARRKRELARAQDDYIS LDVQHTSSISGMKRESEDDPEIS RNEETSEESQEDEKQDTWEQQ QMRKAVKIIIEERDIDLSCGNGS SKVKKFDTSISFPVNL EIIKKQL NTRLTL LQETHRSHLREYK YV QDVKSSKSTIQNLESSSNQALN CKFYKSMKIYVENLIDCLNEKII NIQEIESSMHALLLKQAMTFMK RRQDELKHES TYLQQLSRKDET STSGNFSVDEKTQWILEEIESRR TKRRQARVLSGNCHQEGTSS DDELPSAEMIDFQKSQGDILQK QKKVFEEVQDDFCNIQNILLKF QQWREKFPDSY YEAFLSLC* RQ
19989	50357	A	20105	154	744	SQRNLC LGRVWYILFFLFAFLQ TLELVSHERRGTGITNA*VSNS PRRELGFHVL*R*QFLLFLFHS RLRSPAGFT*WIPHRGCRWSCL PVLRLHALAFLSPWVVDGTGR GAGGGARRGGSGHTGAHGVG GRLRHGRLQVPSPLRARS PFLLS CTLSCQLDSPCLTCSQGHQYKY QHS DKGKRLTIVTKSFDIFPS
19990	50358	B	20106	1	531	
19991	50359	C	20107	99	323	
19992	50360	A	20108	305	658	
19993	50361	B	20109	79	936	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
19994	50362	A	20110	381	1169	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPAPRRPVFST TQGLRSASARHGTGRQLHLQP WCGIHWVKLAGLLSLVGSQHL RGQGSRAAAALTHMHS/PHAC THAHTRAEPLRLPPPRPLPPPL SPPPRLCLCLRSLFCPLTESAA KAGSKKFHSVQEIIPSAVCELG VGTVLHIDPEKWRAGRENVET GGKRTSGSKDSTGRGWGQTD YGLGKKERTEEASRSCICLVCV SMRRDALCGQSVGSHFCQWSL
19995	50363	A	20111	3	4804	KRLNIQKTLEAVFSAEAVWMQ PSVVLDDLDLIAGLPAVPEHE HSPDAVQSQRALAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKNFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSTREKLV TTLDLQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
19996	50364	A	20112	2	1844	
19997	50365	A	20113	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MVTW NGSLIPWSPCKINLTP*/PAVVL QNRRLDLLTAESGGTFLLEE KCCCVYNQSGIITEKVKIEQGRI
19998	50366	A	20114	1	1338	
19999	50367	B	20115	1	4935	
20000	50368	A	20116	3	421	
20001	50369	C	20117	33	571	
20002	50370	A	20118	3	323	
20003	50371	A	20119	146	809	EKCRHNCCSRVWQSLVQSQSVW ATEGQYGRKTNARPVQVKIDS ASFPYQRRYPLRLEAQGLQKI VKDLKAQGLVKPFNSPCNTPII GVQKPNQGWKLVQDLRIINEAI VPLYPVNPYTLSSQIPEAE WFTVLDLKDAFFCIPVHRESQF LFAFEDPSNPTSLTWTVLPQG FRNSPHILFGQALAQDLSQFSYL NTLVLRYLDDLAAHLETLCH
20004	50372	A	20120	3	1147	
20005	50373	A	20121	2	1658	

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20006	50374	A	20122	2	211	MGYDFSYFFPGGCLKSRKSS RGSQE*LALSPGFSGFSIQDL TQV*CIQDSTPATL.TAVGVDKM
20007	50375	B	20123	86	586	
20008	50376	A	20124	66	433	SSSRTEGARGKRQMPSP/STEP RVCLTIEGQEVNCLLDTGAAPS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQPLSCDWGTLTFSNAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
20009	50377	A	20125	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTCCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPWMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHNLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL
20010	50378	A	20126	260	392	VEVVILPMPVNP/LPSIPARITKG RMGTLLRLGLTT*LYKSCSV
20011	50379	A	20127	1	1740	
20012	50380	A	20128	1	858	MEWEDNLPLELGRVTAKLSD HSQTPLGIQMFLLFSLSLRKSP VCLSYLFNFRFTLESEVQHLG AITLTAWPKIPFLGIREAKSPRS ENTRLATILEAGHRHLGTSVSK DHPVTVWRPRDLQSDLKQIKI DLGKFSNDPDGYIDVLQELGQS FDLTWRDIMLLNQTLTPNERS ATITAREFGDLWYISQVVA AGLVSEAVKIIQGLTVWT/SHD VNGILTAKGDLWSDNHLLKY QALLLEGPVLRRLTCATLNPAT FLPDNEEKIEHNCQQVIAQTYA
20013	50381	A	20129	1	6530	MWGSDDLGAAGGGGAAVTVA FTNARDCFLHLPRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGQELHVASLEQHLLDQI RIVFPKAIFPVVWDQQTIFYQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADAIEYKLLHS YGRDQKGMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSQSEKKQETSWG LTEINAFKNMQSKVPL
20014	50382	B	20130	1231	2065	
20015	50383	A	20131	68	372	
20016	50384	A	20132	1	1461	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
20017	50385	A	20133	1	806	AVVWCTHCCAPTSPGVLPHSAA MSFLKSFPPPGPAEGLLRQPD TEAVLNGKGLGTGLTLYAESRL SWLDGSGGLGFSLYPTISLHALS RDRSDCLGEHLYVMVNAKFEE ESKEPVADEEEEDSDDDVEPITE FRFVPSDKSAF*FPCSVAMFTA MCECQALHPDPEDSDDYDG EEYDVEAHEQQGDIPTFYTYE EGLSHLTAEQATLERLEGML SQSVSSQYNMAGVRTEDSIR DYVEDGDGRDLTTPVCLGQFA EDADV
20018	50386	A	20134	225	420	RLLDGVCGRRLRPRGHEEQRP GPGARSHSRSGPRMGRDCAGA VPRVTPK*SACAAGRGGPAT
20019	50387	A	20135	1	687	
20020	50388	A	20136	1	2979	MLRRKKQEDWAAKGSSHACG QIPEEREKGFVGNVAVNLGLD LGLSARSRFRVVGASRRFFEV NRETGEMFVNDRLDREELCGT LPSCVTVLVLVVENPLELFSVEV VIQDINDNNPAFPTQEMKLEISE AVAPGTRFPLESAHDPDVGSNS LQTYELSRNEYFALRVQTREDS TKYAEVLRLALDREREPSLQL VLTALDGGTPALSASLPIHIKVL DANDNAPVFNQSLYRARVLED APSGTRVVQVLATD
20021	50389	A	20137	2	296	
20022	50390	A	20138	1187	1292	
20023	50391	A	20139	2	3250	LTSRWRPWPRPPTSSAGWFC ASTGPWTAAPAKAPPSWASWT SRALSSRPQTSRLWRR*PRSR AATPSSSGRGTCGIRPTSVFSTT RARSTTRPTSG**KTWTL*MTT SQ/RLHQSITDRLTAIWKDVE GIVGLEQVSSIRATAHQVAAPV GVCSSQWSS/IIKESLSRLMAT LSNTNPSFVR/CIVPNHEKRAGK LEPRLVLDQLRCNGVLEGIICR QGFPNRLFQEFRQRYEILTPNA IPKGFMDGKQA
20024	50392	B	20140	1	1816	
20025	50393	A	20141	500	866	QVCLYPGWQHSRGRQRVSG*A HLHTAPLWICQ*SGDCDWHES* GGGM*CVRFEPPTSSPPSAT GSLJK*KEKTGLSNSPCSTSTSS GGRTPTSDRMGKTRRQYPSGA GNSDEKVGFPQVF
20026	50394	A	20142	130	226	

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20027	50395	A	20143	846	1555	GRKTPSQGRRWSSPRVFLLPGG PKPCYTYPLVGEKLLFRVLPLFP HKPSASNLEKVSHCPCEGKTF RSSYLVRHQRIHTGEKPSQVPV ECGKGFF**ALPT/CTAH/HYGTH TGERPYCQCQCGKSFNQSSSLI VHQRTHTGEKPYQCI/CGKRF NASSQFSAHRRHTGESPYKCA VCGKIFNNSSHFAHRKTHTGE KPYRCSHCERGFTKNSALTRHQ TVHMKAVLSSQEGRDAL
20028	50396	A	20144	93	764	AQERKALKSTPSHSSFSR/WLSR IILKNGSSSSSSSSSSSSSLRE RERKSCENVNITRNR/LTAETI ADTIDTSNGSVFLIWTER*EWN WLPKPWHQYQLQARASLSEIIL NNRWEQDPEAFQDPEDQARS/ QWLPRGGSAPV\KQRLLLHHDS VPDHAFLRTAAAGQDLPWETV RRPPDNPDAPDFSLFPCLGK LLAERRCFSLQRRVPWPPENQP PHRQ
20029	50397	A	20145	1	433	
20030	50398	C	20146	312	443	
20031	50399	A	20147	1	94	
20032	50400	A	20148	2	122	DLLCPQMG*GWKLTALSQC LQDGIERSRAKASQCCLSI
20033	50401	C	20149	25	328	
20034	50402	C	20150	157	309	
20035	50403	B	20151	33	2996	
20036	50404	C	20152	167	274	
20037	50405	A	20153	3	130	AGAVQFQALGVPNKDTKSLEL HQKPKPR*QDDNHRMSPVYV
20038	50406	A	20154	2	453	
20039	50407	A	20155	1	1317	
20040	50408	A	20156	1	1350	

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20041	50409	A	20157	970	2559	FPLAYSLLFP/CSRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKKRRGRRTK KRRRRGRKEGEDQNPPCPRLS RELLAEKEPEVLQDSLDRWYST PSVYLGLTDPQCPCRSFVYLE QQRVGLAVDMDEIEKYQVEVE DQDPSCPR*L*AITDA*FCVDT WRCQVQKGQECVQFHVFNEG* ITPTDIAVGFHCSCRLGFHFFLP LSFTHLL*VDHTSKAVWQLHGI LSKFMENY*AHSFHDHCSLCVP RALTQSVL*PLHQCVTRPIR*AH FLLSLSLPLPVFLFHSFLPGPGLS QHKGNNSLPH*WICPFSF*TPVY VSHEI*LGLCGF*FPLAYSLLFFT /CSRLSRELLDEKEPEVLQDSL RCYSTPSSGYLELPDLGQPYSSA VYSLEEQYLGALDVEDRIKKD QEEEEQGP/PCPRLSRELLEVV EPEVLQDSLDRCYSTPSSCLEQP DSCQPYGSSFYALEEKHVGFSL DVGEIEKKKGKKRRGR
20042	50410	A	20158	2790	5320	LHLFCHKRQHGGISRALGSSKK PEMNILEISETLRPLAEKKQOF RSLKECKFLTQLAGFLANRQKK YKYEECKDLIKFMLRNERQFKE EKLAELKQAEELRQYKVVVH SQERELNQLREKLREGDASRS LYEHLQALLTPDEPDKSQGGDL QEQLAEGCRLAQHLVQKLSPE NDEDEDEDVQVEEAKEVLESS APREVQKAEESKVPEDSLECA ITCSNSHGPCDSNQPHKNITF EEDEVNSTLVVDRE
20043	50411	A	20159	394	3251	GRRVCLFSEDEECKDLIKFMLR NERQFKEEKLAELKQAEELR QYKVLVHAQERELTQREKL EGRDASR/SLNEHLQALLTPDEP DKSQGGDLQEQLAEGCRLTQH LVQKLSPENDNDDEGV/SQVE VAEKVQKSSAPREM/QKAEKE VPEDSLECAITCSNSHGPDNS QPHIKTKITFEEDKVDSTLIGSS SHVWEEDAVHIIPENESDDEEE EEKGPVSPRNLQESSEEEV/PQT PWHE*LSHLSIL

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20044	50412	A	20160	245	641	ILSVLIAVLCVVGKIPLEPLCP AAGSAAEACVGGQMPVIVQ/PC SQQRPSMCMWPRNACQSSRAL GGDESYVPKNRKSFTKHPVSSC /PSPSLGWGRG*/R/PGGPGRSPG LALGFPSFSGPAGFGQGTSSPRF
20045	50413	A	20161	7	194	RPLVESRGIPRSPAASFSTACPR NTASIPSAPSWWETAWTQTSS* APPVA*RPS*PSPESPL
20046	50414	A	20162	232	509	MGVLMHRRCTKAPAWAVATY EAPLHCQQLLVGVVGLAGDPS LLDLGGIHHQQPGLPITVLHQ EEADLVLLRAVTDAAALPVEQ HRP*GAPGLLPDPGGQ*SGDP AAAGGYLQGRGLGPQGHPP HPGAAGSAGEPRKWLPRRGL WCSACA*GPSTGPGEQRGP SG*FISASTSASRATSACRS AFIT SQTEPPTWPSLARQSSGLARPP APGRTAAGRDR**TLP PGK
20047	50415	A	20163	3	859	SLGGNKSRRPTRCCSGSRRCR DKSAAYSGALWRGCRSPRAP PPAPQTIPRAWPSPTAVLTHPLL AGPSRWGSSCTGAAPKPPPPGRG PLRGSPALPAAPCGCGGCPGWGP KPLGPWRYPPAAAGSPDHCP PPS GGGSRPGAPQGGNRCRSARRT APPSGCGSEVGSGL*WSPRSGPRP PGWFGWAGACGGSGGSAASA ALAWEGPEQSQEALQPQSPQRP APAAAAAGAGPRLSSPRRAW SSPG*/HGIPWPTHASAAALPAAG HRGSFGILP*RAGKRSAMLST
20048	50416	B	20164	179	438	
20049	50417	A	20165	1	930	MESPWQRWLRKVARSGGGR LSNKRKLHLKKKKKGERGGGG AEREKAAAAPGCKAGAGN AKKFVQNGPGTKESSAQVPTG PSAAGLL.EFARGPLQTLFAWVS AAVSAEPRIFMIRECCCLIVPLE VLSQRSTWPCFELISDCCASNQ QDSMGVGPSEPGAGYNLLVRH FLSPSEKCSIRVGVARFSRVLPP PLLGISAAAAAGGAARQAAQL REGSRCRLTDIPHAPSTPPEQG HSAEGAAKEPKRRSARLSAKP APAKVEAK/PKAAAKDKSSD KQVQTKGRGAKGKQAEVAN QETKEHLPAV
20050	50418	A	20166	199	419	

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20051	50419	B	20167	969	1313	
20052	50420	C	20168	481	738	
20053	50421	B	20169	56	3476	
20054	50422	A	20170	1	2679	
20055	50423	A	20171	1	1467	
20056	50424	A	20172	208	379	NPCKKGVLFQF*LKIHKRQFIC ADLEFVISE*CTRYPIVAFNWK PSLLRRSTPVK
20057	50425	A	20173	1	921	
20058	50426	A	20174	197	355	
20059	50427	A	20175	1	3180	
20060	50428	A	20176	1	1309	
20061	50429	A	20177	1	2295	MFYNDVKKQQQMAALTKEKD QLSQSIVMYKSLFEASQQLLNE MKCQVEEARLKEAQLRNELKI HNIDIPTTQQVPHIEALLKRKLS EQEELKKKPRRSCTLPNYTKGS GDVLGKIAHLAQIEDDRAAMVI SWHLASDMDCCVVTLTDAARR IYDETQGRQVPLPLDSIYKKT PDWKRSLPHFRNGKLYFKPIGD PVFARDLLTFPDNVHEHCETVFG MLLGDTIILDNLDAANHRYKEV VKITHCPTLLTRDGD
20062	50430	A	20178	3	2550	
20063	50431	A	20179	256	3680	NRGLFCFLHLHLKEHERHL ATVYVFPILSCTIYRSVLLTSSQ THIYTHVGDREAQAALKLGRWS HPRTPNAVGA GPPEGAGGGD AVTSQSALLTFSRTRFASGAHA GAHPVLLRNEEEKGAPALVAPI FSAEGPTCSLWWTLPASTAGL KLPAAASTRPSQRGLTADGGGP GGASVGTEDGGGVGHRTVYL FDRREKESELGDRPLQVGERSD YAGFRAYETVKDGVTLYLQGS VNQLLTATKERIDF
20064	50432	A	20180	8	267	RGEMPGERLKA EVFLPPSPLSPT QVVGPLHRVWS*IGNASSQRGE AQVRS*VSFSLRLDSTPWIPGT RALRG CWLWRDFTQLQSG

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20065	50433	A	20181	1	3692	MNPIREMQVSGIALKGTMKGW TELKSPVWYTGNGKGRNYFTN LALSLLFEDDTKLNPYAGGDAI RVRIISVGPFGKGERFTVPGLASEC GKNSFLRFPNSRRKQLCGRVH GSFLWFSMMSQSMGGDNLSL DTNEAEIEPENMREKFFRSLAR LLENKSNNTKIFSKAKYQCQLIK EVKEAKAKAKKESVDYRRLAR FDVILVQGNEKLIEAVNGETDK IRYYLHSEDLFDILHNTHLSIGH GGRTRMEKELQAKYK
20066	50434	A	20182	24	131	PVHKRWS*NDECYRHCTV***Q PGSEENNPALENR
20067	50435	C	20183	99	281	
20068	50436	A	20184	1	4200	MVILKDFMKFEMNSEEGDFLR TCDFFFLRHLVAVKQLAHVKV DRFFPRRQSLAESRTAGIRLQTN VQKMVSSFTTSDRKQTSPPSYS VSFIPEFHFLGPPTHCPQTAVSQ CDLLFQLHSPAELFPARTLPG GPRSPHLRVPAAPLQHDPRH TGPPLPPTANRGATPPLPLGPGA LERSGRLGELNSASSFLRRDN PQSPAARPRGSHLAGIEGERT LINYYCQERYFHHVLLVASEGI KRYGSDPVFRFY
20069	50437	A	20185	1	1464	
20070	50438	A	20186	335	855	RIASMPRLPPRTQGRGSARLPSR ARPLHWHHRHTMLPPKPRRW R/RALGPAEAGMLEKLEFEDEG ECAPPAAGPALPRGPRPTGTR GDPAPHLRRCPATSCVLKPRG RGNGRGGDAGELGLRGPCD LPSQNFLCFLVDVLKNGLLALQ LFSSNPTASCAESLPMRLTPVI

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20071	50439	A	20187	2	1160	SARPAASPAGERASQLMLIAV LLLPLRRRWRRALGPAAEAGML EKLEFEDEAVDESSEGVYMRP MRSHKCYDIVPTSSKLVVFDTT LQVKKAFFALVANGVRAAPLW IESKKQSFVGMILTITDFINILHR YYKSPMVQI/YMELEDHKNLET WRELYLQETFKPLVNI/SPDAS LFGWLYTSLIKNIHRLPVIDPIS GNALYILTHKRILKFLQLFMSD MPKPAFMKQNLDELGIGTYHN IAFIHPDTPHIALNIFV/EKDRIS ALP/VLWDESGKSW*IFNSPNLN VN*ILACLEENIPNNLR*STVT/Q A/LQHRSQYFEGVVKCQLSWKF LETHRWTRIVRAEGPSGLVVV NEADSVGIISLDIL/QALIL/TP AGAKQKETETE
20072	50440	A	20188	58	205	
20073	50441	A	20189	347	1581	NPSPC/WAVFFQKDAITSKIQT LSMLHLYN**SSPSKENTRTVE KLYKCSVDIRKIRRFKKGVL RR*KPYVERNCRIFYQELGAR* DAVASNLERCPEAIV*SPTAVN TQRKLWQLVCKNEEELIKLIEQ FPESFTIKDQENQKLNVOFFQ DVGTKKCGHICRLLTAAPNCF NPVEKNKQMV/EFQESYLDL GGSEANMKSGFLKLFKPKPFY FV*ISPTAIKETLEFLQEPFP LKFQLPIPNKGFQLCPKKY TE*YFLL*KCLLNAQIFMDP/VS N*VLKWPFCFILFLPVLEERM QGLLREGISIAQIR/ETPMVLELT PQIVQYRIRKLNSSGYRIKDGHL ANLNGSKKEFEANFGKIQA ALQNLRLSLNYYDELTVGEC GNRKGRGTNVNITL
20074	50442	A	20190	3	455	
20075	50443	C	20191	72	218	
20076	50444	A	20192	3	452	LGILLVDDFVNVLSLAVYAED SEPSDGEAGIEAVGSAAEK GLVSDAYGEDDFSRLLGGDE YEEEEEDNSRQSEDDDSSETE EADDPKE\NSAQ*QRHPGLSKL MAQLVGLRGQKNHILNMIRDV TQQPQLSLAAHTPHTPHILQ
20077	50445	A	20193	1	334	
20078	50446	A	20194	1	687	

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20079	50447	A	20195	1	1280	RPGCGNK MAGKKNVSSLAAY A*ISEPESDGEAGIEAVGSAAD EKGGLVSDAYGEDDFSRLLGGD EDGYEEEEEDNSRQSEDDSET EKPEADDPKDNTEAEKRDPQEL VASFSERVRNMSPEIKIPPEPP G/RCSNHLQDKIQKLYERKIKE GMDMNYIIQRKKIEFRNPSIYRE /RLIQFCAIDELGTNYPKDMFD PHGWSEDSYEEALAKAQKIEM GQIGKRPKKERNQKFEFCGAP KKGT/TRINATSTTTTTCQAQL FADCFRRGKRQVGIRAIPTSATKP KRTPPPKPPNTLTATLPS/V VVTVTHPSASGSKDPPVISCAG APIVKERPQVTLRGPPLGLER DRAAPVTHCPVGGAHFVYFRT GTYSRCHLRGASVWHSRWKD RQHGSQALWTGSVHAPPGVCR LLKVPYSYLLASQKK
20080	50448	A	20196	1	542	MAYSAPKSCTEGHESPH/HHT AGHSGWHGG*ALRQRGHSCPK EGTRGHQPQLAP/HHQCPQHA GLPR/HNQLLHD/WFRHHHHHRH WHHHHHHHQ*FPECQPSSTSHQ ANPHHRPDLHQRAPDSGYEG VSPKRVAEAFSLGSAAPQAAQ GRSHGQSPGVHGFSSHGSPAAS SDIMKRLPPGLF
20081	50449	A	20197	45	171	RKTRERIGHDVICNLL*C**SS/C GCGLS/CICS*IRHSKSSRKA
20082	50450	A	20198	277	467	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGR
20083	50451	A	20199	1	1080	
20084	50452	A	20200	34	119	
20085	50453	A	20201	1798	1894	
20086	50454	A	20202	363	778	GLGPHDYLYSILSIERSCCC*CC CCCCRRRRCCCC/CV*GCSRFL CSIAESTPSGALRRLRGGRSGGS GGCCSPGGCREGGRGNTKPAT RCEVICGGSGGGGARPAAPP GPDASRVCFWFLNTSIVFSCPF
20087	50455	A	20203	1	360	
20088	50456	B	20204	1	3681	
20089	50457	A	20205	1	293	
20090	50458	B	20206	38	282	

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20091	50459	A	20207	1	1124	VDTVKRL.LJKKL.PPVLA.IQLKRF DYDWEREC.AIKFNDY.FEFPREL DMEPYTVAGVAKLEGDNVNPE SQLIQSQSESESETAGSTKYRLV GVLVHSGQASGGHYYSYIIQRN GGDGERNRWYKFDDGDVTEC KMDDDEEMKNQCFGGEYMG VFDDHMMKRMSYRRQKRWWN AYILFYERMDTIDQDDELIRYIS ELAITTRPHQIIMP.SAIERSVRKQ NVQFMHNRMQYSMEYFQFMK KLLTCNGVYLNPPPGVAEKTOL LKLSPATFMLVSLDEGPGPIK YQYAE.LGKLYSVVSQ.LIRCCNV SSRMQSSINDAETA.FNKIQHRF MLKILNKQGEETYIKITRAIYD KPTANIILNGQMI.EALPLNRRT
20092	50460	A	20208	1	1053	
20093	50461	A	20209	1	7785	MTATTTRGSPVGGNDNQGPAPD GQSQPPLQQNQTSPPDSSNENS PATPPDEQGGDAPPQLEDEEP AFPH.TDLAKLDDMINRPRWVV PVL.PKGELEV.LLEAAIDLSKKG LDVKSEACQRF.RDGLTISFTKI LTDEA.VSGWKFEI.HVSLAFDFK GSDLHSDACEWEERCINNTHR LVEL.WCGPSCPDW.FPLLELL AMALNPHCKFHIYNGTRPCESV SSSVQLPEDEL.FARSPDPRSPKG WLVDLLNKFGTLN
20094	50462	A	20210	1201	9141	ADKIAKICPVSSMTATTTRGSPV GGNDNQGPAPDGGQSQPPLQQN QTSSPDSSNENS.PATPPDEQGG GDAPPQLEDEEP.AFPHTDLAKL DDMINRPRWVV.PVL.PKGELEV KLEANIDLSKKGL.DVKSEACQR FFRDGLTISFTKI.LTDEA.VSGWK FEIHRCLVELCVAKLSQDWFLP LELLAMALNPHCKFHIYNGTRP CESVSSSVQLPEDEL.FARSPDPR SPKGWLVDLLNKFGTLNGFQIL HDRFINGSALNVQ
20095	50463	A	20211	2	710	

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20096	50464	A	20212	1	1703	RPLDVGGPAAAGTPGVLSRPCPS TAALAPKPFCAAPRPQPDAPAC AGATGGSCADFDSGVDFVRRR SSGLWGPQPLFPVKNYTEDPV AFKDVAVNFTQEEWALLDISQ KNLYREVMLETFWNLTSIGKK WKDQNIIEYEQNPRNFRSVT EEKVNEIKEDSHCGETFTVPVD DRLNFQKKKASPEVKSCDSFVC EVGLGNSSNMNIRGDTGHKA CECQEYGPKPWKSQPKKAFR YHPSLRTQERDHTGKKPYACK ECGKNIYHSSIQRHMVVHSGD GPYKCKFCGKAFHCLSLYLIHE RTHTGKPYECKQCGKSFSYSA THRIHERTHIGKPYFCQECGK AFHSPRSCHRHERSHMGEKAY QCKECKKAFMCPRYVRRHERT HSRKKLYECKQCGKALSSLTSF QTHIRIMHSGERPYECKTCGKG FYSAKSFQRHEKTHSGEKPYKC KQCGKAFTRSFSFYHERHTHG EKPYECKQCGKAFRSAPNLQL HGRTHTGKPYCKECKGKAFR SASQLRJHRRHTGKPYECKK CGKAFRYVQNFRFHERTQTHK
20097	50465	A	20213	3	2413	

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20098	50466	A	20214	1	2124	MGKNTPMIQLSPGPFHNSEYR FPVLSVSAFLLYTCEMFQDPVA FEDVAVIFTQEEWALLDISQRK LYREVMLETFRNLTSLGKRWK DQNIIEYEHQNPRRNFRSLIEEK VNEIKDDSHCGETFTFVPPDRL NFQEKKASPEVKSCSEFVCGEV GLGNSSFNMRGDIHGKAYEY QEYGPCKPCQPKKAFRYRPS FRTQERDHTGEKPNACKVCGK TFISHSSVRRHVMVMSGDGPY KCKFCGKAHFCLRLYLIHERIH TGEKPCECKQCGKSFSYSATHR IHKRTHTEGKPYEQECGKAFFH SPRSYRRHERIHMGEKAYQCKE CGKAFTCPRYVRIHERTHSRKN LYECKQCGKALSSLTFSQTHVR LHSGERPYECKICGKDFCSVNS FQRHEKIHSGEKPYCKQCGK ALPHSSSLRYHVRTHTEGKPYE CKQCGKATHNGEKPYACKECG KPFQSAQNLRIHERTQTHIMHS VERPYCKKICGRGFYSKSFQI HEKSYTGEKPYECKQCGKAFV SFTSFRYHERTHTGENPYECKQ FGKAFRSVKNLRFHKRTHTEGE K/PL*IEKTHTGRKHYECKQC GKAFTSSSSFYHERTH/S/GEK PYQCKQCAKAFISSTSFQYHER THMGEKPYECMPSGKAFISS/SS LQYHERTHTEGKPYEYKQCGK AFRSASHLQMHGRTHTEGKPY
20099	50467	A	20215	23	265	
20100	50468	A	20216	40	470	
20101	50469	A	20217	235	392	

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20102	50470	A	20218	7	1439	EGADKMATSVGHRCGLGLHGV APWRSSSLHPCEMTALSQSLOPL RKLPPFRAFRTDARKIHITAPART MFLRLRPLPILLVTGGGYAGYRQ YEKYRERERELEKLGLEIPKLA W SLGSVALYKSVPTRLLSRAWG RLNQVGAAHTGLRRPRFTSLYI WTFGVNMKEARVEDLHHYRN LSEFFRRKLKQPQARPVCGLHS/V GEA*PFPAGNRTFSCLPSTAPL VSSVSGRGRMTRGGGCGCLGG GDPALPGSKPLLPQISPSDGRIL NFGQVKNCVEQVKGVITYSLE SFLGPRMCTEDLPFPAASCDSE KNQLVTREGNELYHCVIYLA PG DYHCFHSPTDWTVSHRRHFPGS LMSVNPGMARWIKELFCHNER VVLTGDWKGFFSLTAVGAT NWGSTRIYFDRDNTNPRHSK GSYNDFSVTHTNREGVPMRK GEHLGEFNLGSTVLIPEAPKDF NFQKLTGQKIRFGEALGSL
20103	50471	A	20219	170	1144	ARTRLAPSPGCRGPAVKKM RHEELTKTFQGPVVCGTPTS HVYMFKNKSGDSGDSSEESH RVVLRPRVKERHKSGVHQPPQ AGAGDVVLLQRELAQEDSLNK LALQYGCCKHSE*LTMA/NVADI KKVNNFIREQDLIALKSVKIPV RNHGILMETHKELKPLSPSET TVTVLPEADRAGAGTGAQAG QLMGFFKGIDQDIERAVQSEIFL HESYCMDTSHQPLPAPPKTPM DGADCGIQWNAVFIMLLIGIV LPVFYLVYFKIQASGETPNSLNT TVIPNGSMAMGTVPQAPRLA VAVPAVTSADSQFSQTTQAGS
20104	50472	A	20220	1	626	RYSSLTLTRPWQTPTPTRASPHS PVAGALTARPPSPRPTKPSRAG VHASRRPPQDLGPIGKGSATK GPRHQKHHESITPPSRSPITKEA PPGLNDDAQIFASQESVAPLWIP VTAP*AHRLVSSCEFGAAFESA GEEEGEGEVSAQAAVQA/GTQ TRR*GATSAPCPVPEGASVPA L*AAGAAGRAEAERPVCVPAQ AVGLSGQPLS

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20105	50473	A	20221	2492	4619	WHSWRQQQGWGAHLGSSATGP GC*QGRPTCVMRPAGT/TRPGE APIGSGTGAVEMPAREPGDEKP PAPFP*QRHFVPRAHLLFGTAL RSLPELMRRVARNPRHILSAEE SLLFSLPGSPWKGWSSWNGQA PPLAPPAQGPLLPVPLSAGPGV AGERTVPSSPRWWRPHLFLAPT APSPPPCPTVSAPGHLLGVAQK PDCHPPASQRRRHLPPLPGEA FAE/SAANS*ISSISASFTFS*SSS WSLD/STKSSLPLHLPTLTSRV PGKFSALLSQFSASFSSHGLPSE SVAIGTCST/PGERAHSRQTCCGP GSSAQSG*GQEEGQCPQCRDSAG TCGRPRCSRHPAGHAGSEPRPL QRRSLHCSHTG*GAGIGHKART CGRKAPPRCPSETGHHSGVGY* PWRQSQQPAARGRARCGRPCP GACPAMAPQTQSEEGRRAPR/T NPAPVPSEPARP/STAGPRAGASV PPSGPRGPAGPGAPSAAGRRRR APGATACSGGAVESG*PSL/GSA LSAQVAPEAARAPA*GPGQAA GAREEGPAWPCRSPP/GPGPSQC AALPQK/GSALRSGGRRTLGPL LSHPSFKILLAGSGGVLDNSTSS ERSRATRSSICRPVSVESWTNN NGGDTGG/SSCDFYSPGADGL SQGHSSDHTNLLLVLSSQKRHF PA*ALVQPHAPSPSTGTEPWPP AGPRTVPRPPSASSVAPSCWVV
20106	50474	A	20222	103	538	PQLSLPLLJIRDRRRPSKCANLT LTLTVAAARHGLQSLGKVGISRR MPPANLPSLKAENKGNPDNV NIVPKDGTGWASKQEHEEEK TPEVPPAQPKPGVAAPPEVAPA PKSWASNKQGGQGDGIQVK*Q FQQEFPSLQAAGDQK
20107	50475	C	20223	1	569	
20108	50476	A	20224	1	1095	

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20109	50477	A	20225	1	1970	MWKGFTILDSFKNISDSWEDVR ISTLTGVWKKLIVTLMDDLEEF KTSVEEITLTQRKLFFVMESPV GPISPPQPPSVSAWNKPLTSFGS APSEGAKNQESGLEIGTDITQ FGAPASNGNENEVVPVLSEKSA DKIPEPKEQRQKQPRAGPIKAQ KLPLDSPVDNKLEHKPGPIGKER SLKNRKVKDAQQVEPEGQEK SPATVRSTDPTTKETKAVSEM STEIGTMISVSSAEYGTNAKESV TDYTTTSSSLPNTVATNNTKME DTLVNMMESARKAWENSPNVR EKGSPVSTAPPIATGVSSASG PSTANYNSFSSASMPQIPVASVT FTASLSGAGTYTSSLSKSTTT SDPPNICKVKPQQLQTSSLPAS HFSQLSCMPSLIAQQQNPOVY VSQSAATLTACLS*WSTAQI PAFYMDTSHLNTQHARLAPPS LAQQQGFQPLSRSQPAFMQS SLSQSPVVLSGTAIHNFPTVQH QELAKAQSGLAQQTSNTQPIPI LYEHQLGQASGLGGSQIDHTL LQVTVPPLPASQLSLPNFGSTGQ PLIALPQTLQPPPLQHTTPQAQA QSLSRPAQVSQPFRLIPAGTQ HSMIATTGKMSEMELKAFGSGI DIKPGTPPIAGRSTTPTSSPSGL LLQVRTASPAK
20110	50478	A	20226	260	8485	VSTEMSEKSGQSTKAKDGKKY ATLSLNFNTSKGKSLTQKTTVA ARHGLQSLGKVGISR/RMPPPC* PPKFLKPE*QRANDPNVNIVPK DGTGWASKQEHEEEK/TPEVP PA/QPKPGVAAPPEVAPAPKSW ASNKQGGQGDGIQVNSQFQQE FPSLQAAVDQEKKEKETNDDN YGP*PSLRPPNVACWRDGGKA AGSPSSSDQDEKLPGQDESTAG TSEQNDILKVVEKRIACGPPQA KLNGQQAALASQYR
20111	50479	A	20227	330	485	RQGDVSLCCLGRS*TPGLK*F SHLDLLNCWDYRCETVHLAEI AQVSEKQI
20112	50480	C	20228	1189	1413	

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20113	50481	A	20229	1	407	MPFSLADCDSDQHCLLFAVVDLGTAKATSCMSDFTDFYSSSGNSANLKEGGKSPGPGKGRGAKQRKYSQGWNRKESCKKHEGVKGAEGRGGTVASVRES/REPRFKMAAFSMHPC*RLSRHRGHLAGRCFCFCR
20114	50482	A	20230	1	408	HMDLAQSPQPVDELESLVLERQPEENTPLNGADEVPFSLDEEVPVPAEANKESPWSSCNKNVVGRCCKLWMIITIFLGVITVIIIGLCLAAVTYVDEDENEILELSSNKTFFIMLKIPPEECVAAEELPHLLTERL**SL**HLGKWR**SST/GLHLPTTFLLQELQGLSLASAGGTSSSKEGKTSSAPLRGVFSSGCRSSTESSSTSGCEGWARM
20115	50483	C	20231	144	383	
20116	50484	A	20232	1	530	AKDSESRRLRGYNPQOMSEGHRQKSEFYNRTASESNVYLSNFHYPDHSYKQDAFDTLSDSSDSMETSISACSPDNISASTSNIARIEMERLLKQAHAETRLLESREMEAKKRALEEEKRRREILEKRLQEETSQRQKLEKEVKIRERQRAQARPLTRYLPVRKEDFDL
20117	50485	B	20233	10	543	
20118	50486	A	20234	370	556	
20119	50487	A	20235	3	3160	TELQQLGQKTADGSPGLKRALIFALNFHSSPPGKDMAAVQRTLMAIGSAVATKDDGCRYGEPFWFHRKAQQNRRGFSEEQLRQGNVIGLQMGSGNKASQAGMTGLSDTPWTAHLGMYVQGNAKFVSPVRRIVVHEYYNSQTDFDYDIALLQLSIAWPETLKQLIQPICIPPTGQVRVRSGEKCVWTGWGRRHEADNKGSLVLQQAELIDQTL CVSTYGIITSRLCAGIMSGKR DACKRKLGTERTPGTQAAAP
20120	50488	A	20236	231	873	KKFRALGSVGPGRASGVQVADEVICRIFYDMKVR/KCS/TPEE DQDKERSAVIFCLSDAKKCIIV EAGKEILVGDVGWNP*TDPFIR HFVGMLP*KKIVRYAFVMDGK LLETGFGQKRKSLMFFV/WAP EL/APLKK*K*SYCKLQGMFAK KNFQGIKHECQA/NGPEDLNRA/ CIAEKLGGSLIVAFEGCPCVDH HSPVQIEKLPMFNCYPLAI

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20121	50489	A	20237	915	1255	GHGQKPAGKKKILAVRSGSEP AGGFQGY/RGGHGTAS/GSPGD DDSPGALWEQSPGPL*AWPGA VSEPMVCAEPVQEQSGPQLPP PRHSRSPSGSGQPGVPAERRRI MGMAA
20122	50490	A	20238	3	227	LLMDTF/FQIVIYL/GETIAQWR KAGYQDMPEYENFKHLLQAPL DDAQEILQARFMPVKLRIQPG NATVSDCVQNV
20123	50491	A	20239	1	642	RRDTIARNWANVQSQVRHIEQ AFDQEAALVLMARLG/VFEPK SKEGPDVLRWLDRLQLRQCQKF GQYTKEDPTSFRLSDSFSLYPQS MFHLRRSPFLQVFNNSPDESSY YRHHFARQDLTQSLIMIQPILYS YSFHGPPPEPVLDDSSRFMPRYI NTEHGGSQARFLLSKVNPSQTH NNLYAWGQETGAPILTDDVSL QVFMDDLKKLAVSSAC
20124	50492	B	20240	20	277	
20125	50493	A	20241	1	3030	

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20126	50494	A	20242	1	2677	MAEVKVKVQPPDADPVEIENRI IELCHQFPFHGITDQVIQNEPMHI EAQQRAVAINRLLSMGQLDLL RSNTGLLYRIKDSQNAKGMKG SDNQEKL VYQIIEDAGNKGIWS RDIRYKSNLPLTEINKILKNLES KKLIKAVKSVALGIPAGCSVCP KCGASNHL SARFCGSCGICVKS LVKLSLDRSLALAAEEPRPFSES LNPLPRSDVGTGRDIGTQTVGL FYPSGKLLAKKEQELASQKQR QEKMSDHKPLLT AISPGRENIG ENLQVIGLVKNFLSNIPQAPAT QAKMGKWDPRQGAQSPLIFL YVVDTCLEEDDLQALKESLQM SLSLPPDALVGLITFGRMVQV HELSCGISKSYVFRGTDLTA KQIQDMLGLTKPAMPMPQARP AQPEHPFASSRFLQPVHKID MNLTDLLGELQRDPWPVTQGG RPLRSTGVALSIAVGLLEGTFP NTGARIMLFTGGPPTQGGPMV VGDELKIPRSWHIDIEKDNRNF IMKKATKHYEMLANRTAANGH CIDIYACALDQTGLEMKCCAN LTGGYVMVGDSFNTSLFKQTF QRIFTKDFNGDFRMAFGATLDV KRVQVGERGREAKNLWTVH AHSSWRALNTGLRSFDFIPGTV REPVKILGRRLTSDLQIRNSPLE AAVQGGVSKTVSTVSLAHAMR AHPHLLMEDLRILVIDLDPQSS
20127	50495	B	20243	453	3318	
20128	50496	A	20244	2	1367	

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20129	50497	A	20245	1	1459	MLEGKYGPPGSFQTRRTALAR SHTNTSPSTSPAANRLNALGIGE RDASPSWLGTDQVVKRQPG SGSRKIPRCAMTYGSLGQQA QAAGVHAPNVFVASLLCQFLQ FVYRNSMGWTGGADFSYSCQE GETKELWSSGHHLKACRAVAF SEDGQSEYWGROPAMWWKGA VSSTMTLGTFSPELITVSKDKAI HVLVDVEQGQLERRVSKAHGAP INSLLLVDENVLATGDDTGIGC LWDORKEGPLMDMRQHEEYIA DMALDPAKKLLLTATYCSSTLY SGDGCLGIFNIKRRRFELLSE SGDLTSVTLMKVQLVMWGKK VACGSSEGTIYLFNWNGFGATS DRFALRAESIDCMVPVTE TGSTDGVIRAVNILPNRVVGSV GQHIGEPVEELALSHCGRFLAS SGHDQRLKFWDMAQLASCGG G*LPSAQKKGRRTTAGSEQQDLE HR*LLRRTTEARGRLHGSQKKR RRLGMTVTEGMN
20130	50498	A	20246	221	847	RHIFSFSGHVLAVSI.GKFIFEST LFPSEARAARRRRPVQWPRFK ARDLRGKKKEELLKQLD/DLKV EAV/SQLRVAKVTGR/AASKLS KIR/VVRKSIARVLTVIN/QTQKE NLRKFYKGGKYKPL/DLR/P*GR HRAMRPPASNQARRENLEGPK EAGSGKGAFTRCGK*RGSR LRGLRQ*KHKENLTKKQQR KERLYPLRKYAVKA
20131	50499	A	20247	1	415	FFFFFECG*SFTNSFSVTIHRRIH NGEKSYECSDCGKSFNVLSSVK KHMRTHTGKKPYECNYCGKSF TSNSYLSVHTRMHN/TANVNSI TVGKAFIDLSCLR*HEQTLTRC MNHLLLCNKLPPKILWLQTKTL VISKFL

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20132	50500	A	20248	196	1768	RRSVLLPGCPVAVGVTGWRLSS CPQLPLCLPCSQPLSEKDTQRA ESWLMSS*KAG/YKGLVTFEDV AVEFTQEEWALLDPAQRITLYR DVMLENCRNLASLGNQVDKPR LISQLEQEDKVMTEERGILSGTC PDVENPFKAKGLTPKLHVFRKE QSRNMKMERNHLGATLNECN QCFKVFSTKSSLTRHRKYSILGE RPYGCSECGKSYSSRYLAVHK RIHNGVVPYECNCGKTFSSRS YLTVHKRIHNGEKPYDCSYCG KTFSSNS*YLRPHLRHTGEKPYK CNQCFREFRNSIFTRIHRVHT GEGHYVCNQCGKAFGTRSSLSS HYSIHTGEYPYECCHDCGRTFRR RSNLTQHIRTHTGEKPYTCNEC GKSFTNSFCLTIHRRIHNGEKSY ECSDCGKSFNVLSSVKKHMRT HTGKKPYECNYCGKSFTIGQGD GFEIVLPPPQLQQLIAFFLGNT HCLSDRLSVQCIHYSIRYLHLNI HYLHYSIHYLHYSICYLHYSIM DPPQQSPHPLQHPLQNPLQ
20133	50501	A	20249	2	408	
20134	50502	A	20250	1	280	
20135	50503	A	20251	2	469	RGIREGEEFDVDLAGMEVAVG GWGRGLWLRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFSSNTTCQQRDPGFR GRYPASPHLTLPPETAHL*LLL CLPAAGVLPHTWPLLDQGWHR RGHAR

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20136	50504	A	20252	1	1762	FRMAAPLVLVVAVTVRAAL FRSSLAEFISERVEVVSPLSSWK RVVEGLSL.LDLGVSPYSGAVFH ETPLIHYLFHFLIDY AELVFMITD ALTAIALYFAIQDFNKVVFKKQ KLLLELDQYAPDVAELIRTPME MRYIPLKAALFYLLNPYTLSCV AKSTCAINNTLIAFFILTTIKGKA LKGEYKGS AFLSAIFLALATYQ SLYPLTLFVPGLLYLLQRQYIPV KMKSAFWIFSWAYAMMYVG SLVVIICLSFLLSSWDFIPAVYG FILSVPDLTPNIGLFWYFAEM FEHFSLFFVCVFQINVFYTIPLA IKLKEHPFFMFQIAVIAIFKSYP TVGDVALYMAFFPVWNHLYRF LRNIFVLTCIIVCSLLFPVLWHL WIYAGSANSNF*GITLTFNVG QLPHEL FIMVPEGGGPGALMA AIERNVDRAVPGGSAERDPIER STLHILLISDYFAFLRREYYLT HGLYLT PQGIAP EAMLVLQSRP GWHIRASWTLRGLVGPEAGPKL SSPELPAGECLGRRGSSPRVTSS LVPKRD PWLTD SKAYGEELGA PQLGPPPCGSAHQGAPSQTGRR
20137	50505	B	20253	102	406	
20138	50506	B	20254	200	408	
20139	50507	B	20255	347	458	
20140	50508	A	20256	2	430	
20141	50509	A	20257	3	567	
20142	50510	B	20258	1	1317	
20143	50511	A	20259	928	2067	
20144	50512	A	20260	2	4498	VHELQSLSEMLKPEVLSPTVKG KLLTGIKSPRSYTPKPNPVTHVI STGIQKIWIGATVGVSTEVSAV TPDGYADAVRGDRFMMPAERR LPLSFVLDVLEGRAQHPGVLYV QKQCSNLPSELPQLLPDLSEHV PWASEALVHKHHYENLYCVVS GEKHFLFHPSPDRFPYELYTP ATYQLTEGTFFKVVDEEAMEK VSVLFLGSRREGQKPGSEEQ QKIWGVAAVQRLGML EAGIL PQEGRFQALAEIADI

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20145	50513	A	20261	3	3137	DTPAWHGDANRTKAALEAARS DYLEFPFAARELCVPLAVPYLD KPPTPLFHYRDWVCPNRPICIRN ALQHWPALQKWSLPYFRATVG STKVSVAVITPDGYADAVERGI RF/M*LPVERRPLPSFVLDVLEG RAQHGPVLYVQKQCSNLPSEL QLLPDLESHVPWASEALGKMP DAVNFWLGEAV*VTFLLHKDHY ENLYCVSGSEKHFLLFHPSPDRP FIPYELYTPATYQLTEEGTFKVV DEEAMEKAEVSRCT
20146	50514	A	20262	164	1236	AQSRRSRDRGQAFSNHHAAEHI TCTPGSGSGSRVSSGQAARRRL SGRAGLWAAVTNPPPHPTWLE VSRSAATAARAALCRRSACL RTPHLSAMISASRAAARL/VG AAASRGLRAARHQIRSNQGT VGIDLTGTTNSCVAVMKKNVPF KIVRASNGDAW/VEAHGKLYSP SQIGAFV/LMKMKETAD**LFLS SEPPQPGQAGFLQPSCCGAYY LYPWLREQRSSILWGGAAAPQ RKSGPLGRSDQPPSPHVVGGF QKRCRHRSSRLPSERLFAASYS SFIRHDKCQPSCSPPSRGAAASR GLRAARHQIRSNQGTVVGIDLG TTNSCVAVMKKNVPFIVRAS NGDAWVRLMGNCLRVRLLEHL CDEDERDCRLIVALPEGMEEP FDYQNDMGNSQDLERRRGCA EPWEEGVGQSLALPLVSLCLKC RWYRSPCTQGQHPATFSGPAEG VISERSMLEHWHEEINQCKAYN EDVFSTMRTPARISSEAMAPA DIIDHSSQRPDFTSGKMLADEF GTASNIKSRVNAFQSWEPHLHY NKDSNL
20147	50515	A	20263	216	728	

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20148	50516	A	20264	1	2519	MAPSSRSAGANTSTPGGCARAR APPGNAGVHSGTQTGA VRDTA FISPPSPGLFLSSEPPQPQRAGF LQPSCCGAYLYYPWLRERQSSI LWSGGAAAPQRKSGPLGRSDQ PPSPHVVGGFQKRCRIIRIAQL FAVGALVCLVLLHLSAMISAS RAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRDY IASVEAIKGA VVGMDLGTNSCV AVMEGNQAKIVLENAEGAKTT PSVVAFTADGERLGGMPAKRQ AVTNPNNTFYATKRLIGRRYDD PEVQKDIKNVPKIVRASNGDA WVEAHGKLYSPSQIGAFVLMK MKETAENYLGHAKNAVITVP AYFNDSQRQATKDAGQISGLN VLRVINEPTAAALAYGLDKSED KVIAVYDLGGGTFDISILEIQKG VFEVKSTNGDTFLGGEDFDQAL LRHIVKEFKRETGVDLTKDNM ALQVRVREAAEKACELSSSVQT DINLPYLTMDSSGPKHLNMKLT RAQFEGIVTDLIRRTIAPCQKA MQDAEVSKSDIGEVILVGGMT RMPKVQQTVDLFGRAPSKAV NPDEAVAIGAAIQGGVLGADV TDVLLLDVTPLSLGIETHGAVF SKLINRKTNIPTKKSQVFSTAAD GQTQVEIKVCQGEREMAGDNK LLGQFTLIGIPPAPRGVPQIEVTF DIDANGIVHVS AKDKGTGREQ
20149	50517	A	20265	1	168	LERERKRSRKELNLFYAWQH RESKMEHLR/QLRKKFEEDKQR IELLRARQKFRPY

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20150	50518	A	20266	3	1085	ARAGAEPQLPATPALPGGKMV ARSLAGLSSG*PGHPSPPISFPAI PIKFSEKQQAASHYLYVRAHGIQ QGTKWREALGW/SRMLTLGF P/PPCS/EESLSCLQSTCGLVQSV ELKFPDLPHPCTSCLAFSVPC*S SRTVSAGHLQGLPRLPSCFTE GAPSPGLGAGSPGALLFRDLVP DVGRSPQPLTSLSLQGFQVAYV VFQKPSGVSAALAVGPKCQA* GSPVSLAPFSSEWISDYADSVPD PGWRLREVPGAHRTMGSPSLQ EEAKAKEEEGVPEDEGWVKVT RRGRRPVLPRTAAASRLVLERE RRKRSRK\ELLNFYA\WQHSRE/ SKMEHS*GKCARSFEEDKQRIR ACCGPKRKIPDRN
20151	50519	A	20267	2	334	SLQVQPFASLISKAPLSTPRLIN KEKAGQSDPFLGMIMGLGGGM DFDSKKA/YAELLGWKKELEDL VRREHASIDAQSGAGVNPST ASPKKSPPAKDEARTTEREKP Q
20152	50520	A	20268	124	407	QSDPFLGMIMGLGGGMDFDSK KAY/RVRRPRLGQPGMDRVR WERGHEGR*EEQAGASPPGNS DLLLHRRDVAWLGECDQGCLA LAELLGWKVR
20153	50521	A	20269	193	458	
20154	50522	A	20270	55	1165	RDRAVGDLSLKGFSAPMAEPD PSHPLETQAGKVQEAQSDSDS EGGAAGGEADMDFLRNLSQT LSLG/SQKERLLDELTLEGA/R YMQSERCSQSSCLVGAGISTS AGIPRLFASPTGLLNLEK*P SFPNPEAIF*DSAIFKKH/PEPFFA LAK\EL/YPGAVSRPTICSIISGL LERDKGGLLLR/CVKRREH*VT WERIAGLEQEDLVEAHGTFYT SHCVSASCRHEYPL.SWMKEKIF SEVTPKCEDC/QSLVKPD/VVFFG ESLGARFFSCYCSDFLKVDLL L/VMGTS/LRDVAWLGECDQGC LALAELLGWKKELEDLVRREH ASIDAQSGAGVNPSTASPKK SPPPAKDEARTTEREKPQ

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20155	50523	A	20271	3	357	FGFNGCSKRIIKLQELSDLEERE NEDSMVPLPKQSLKFFCALEVV LPSCDCRSPGIGLVEEPMKVE EGPLSFLMKRRTAQKLAIQKAL SDAFQKLLIVVLG/QDCLDHP* TSVSVSK
20156	50524	A	20272	696	1123	IPLKMMNLFQSLKSPQLSHQLR L*LPQVEPSLTQQNFPAQTP/V PPMEAEPSPNQEATVQASEPP KNIELSSQQMVPENIFPPTMENS NQLPEPPTEVVAQLPPRYEVTIP TQGGDQAQLSTLASVTLQPLDL GFIITPESTTEIELSPTMQETPTQ PPKEFVPPPV/LSRESSEETGPL PVQQETS AESPEPTKD ENFPIQ *EAAFSSEISSQGSWHQT
20157	50525	A	20273	1	727	GIPAADREASLELIKLDISRTFP NLCIFQQGGPYHDM LHSILGAY TCYRPDVG YVQGMSFIAAVLIL NLDTADAFI AF SNLLNKPCQMA FFRV DHGLMLTYFAAFVVFEE NLPKLF AHFKKNNLTPDIYID WIFTLYSKSLPLDLACRIWDVF CRDGE EFLFR TALGILKLFEDIL TKMDFIHMAQFLTRL PEDLPAE ELFAS IATIQMQSRNKKWAQVL TALQKDSREMEKGPSLRH
20158	50526	A	20274	3	435	CGGIPKMEESA EYEAARHKRE KR MENINLAGSKRGKEDGKDS EFAAIENLP GFELLS DREKVLCS SLNLSPAR YVTVKTHIHKDLHQ RQGIP/CQKPPS*LPQSPKEKD FEFPHRKRLDLQGRVLKLRFFE SQGDAQTV CQPK
20159	50527	A	20275	46	513	

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20160	50528	A	20276	3	1084	NQEWKRSPPITVAKATQGA YL NILKDTLRAQKEQKEGKEEVIH KGAKLHPNGYRMAQQSETLVA RGGPCRSVEPSAASPQELRGW WEAQALKRWGLMGGVVWVME VDPSWLGAISAIVSSASRLKLS VWHIPCPHFLLRPQLKEAQRR KKQLFEERCVEESIGNAVLTW NNEILPNWETMWCSRKVRDLW WQGIPPSVRGK VWSLAIGNELN ITHELFDICLARA KRWRLSTG GSEVENEGLCVAVCAQQGHVG VMGFGSDEPSAVSPCEKGKSLA AWVLIFVDFRVGLQKSFQKRK ERESTKLQQLWSWCLMLTYFA AFEVFFEENLPKLFHFKKNNL TPDIYLD/W*FRLLVGC
20161	50529	A	20277	60	556	EDSEMAPPAGPASGGFGEVYE LFDVKNAFYIGSYQQCINEAQR VKLSSPERDVERD VFLYRAYLA RRDSIVAELDREMSRSDVTNT TFLMAASIY LHDQNPDAALRA LHQGDSLECTAMTVQILLKLDRL LDLARKELKRMQDLDEDATLT QLATAWVSLATGG
20162	50530	A	20278	1	628	FFYKSVLAQKEVRCVLDE/ISPL GPPELKPVRMFADL/LPHESRR DSSVPELA EKMSRSDVPTPPS LLMAASIY LHDQNPDAALRAL LHQGDSLECTAMTMQDAYYIFQ EMADKCSPTLLLLNGQAACHM AQGRWEAAEGLLQEALDKDSG YPETLVNLI VLSQHLGKPPPEVT NRYLSQLKDAHRSHPFKEYQA KENDFDRVLQYAPSA
20163	50531	A	20279	1	884	RKFGVVLDEIKPSSAPELQAVR\ MFADYLAHESRRDSIVAE LDRE MSRSDVDTNTTFLMAASIY LHD QNPDAALRALHQGDSLECTA MTVQILLKLDRLDLARKELKR MQDLDEDATLTQLATAWVSL VATGGEKLQDAYYIFQEMADKC SPTLLLLNGQAACHMAQGRWE AAEGLLQEALDKPPHGCSCERK LVSPFMVETEAKQSPVCKKVPC HGPPWAGRALGASSLDSGYPE TLVNLIVLSQHLGKPPPEVTNRY LSQLKDAHRSHPFKEYQAKEN DFDRLVLQYAPSA
20164	50532	B	20280	512	903	
20165	50533	A	20281	18	413	

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20166	50534	A	20282	1	1195	MKHPNINSALQAPHPFPVGRPH LVAGVAPPALSNHPQARATAA AGKPHPRCAEAAIGLACTAPG SHWLKMGELPLDINIQEPRWD QSTFLGRAPHFHFTVTDPRNLLL SGAQLEASRNIVQNYRAGVVTP GITEDQLWRKYYVDSAFHPD TGEKVVILGRMSAQVPMNMTI TGCMLTFYRQGSKDEGHCRRG RSECLCSLRKKTPTVVFQWVN QSFNAIVNYSNRW*HFPSLVR QLGTAYVSATVTGAVATALGL KSLTKHLPPLVGRFVPFAAVAA ANCINIPMRQELQVGIPVAD EAGQRLGYSVTAAKQGFQVVI SRICMAIPAMAIPLIMDTLEKK DFLKRRPWLGAFLQVGLVGFC SIHISNLEPELRAQIHEQNPSVE VVYYNKGL
20167	50535	B	20283	24	51	
20168	50536	C	20284	1	1182	
20169	50537	B	20285	1	372	
20170	50538	A	20286	1	4610	ELAQNHRSRPAPASAPGGGGGG DPNMTARTFGPEREAEPAKE ARVVGSELVDITYTVYIQVTDG SHEWTVKHRYSDFDLHEKLV AERKIDKNLLPPKKIIGKNSRSL VEKREKDLLEVYLQKLLAFAFG VTPRVLAFHLHFHFYET*VIHA A\LAELFEKGEQLLGAGEVFAI GPLQLYAVTEQLQGGKPTCAS GDAKTDLGHILDFTCRCLKYK VSGTEGPFGTNSIQEQLLPFDLS IFKSLHQVEISHCD
20171	50539	A	20287	1	4670	MAAQRAAGATGGGGRGASAP GGGGGGDPNMTARTFGPERE AEPAKEARVVGSELVDITYTVYI IQVTDGSHEWTVKHRYSDFDH LHEKLV AERKIDKNLLPPKKIIG KNSRSLVEKREKDLLEVYLQKLL AFAFGVTPRVLAFHLHFHFYEI NGITAAELFEKGEQLLGAG EVFAIGPLQLYAVTEQLQGGKP TCASGDAKTDLGHILDFTCRCLK YLVSGTEGPFGTNSIQEQLLP DLSIFKSLHQVEISH
20172	50540	A	20288	2	227	ERFRPPIARVIDVSNKGVHVAE/ SCLTEETGGLGVDIVLDAGLDPP DSHCLFLKGATLAFNLDEVWN LSNVQQGRYL
20173	50541	A	20289	3	487	

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20174	50542	A	20290	2	222	
20175	50543	A	20291	1	296	HLSPGKSVLIMDGASA\FGTIAI QLAHHRGAKVISTACSLQEDKQC LERFRPPIARVIDVSNKGVHVA ESCLEETGGLGVDIVLDAGGYI FQHSSYIFT
20176	50544	A	20292	353	512	
20177	50545	A	20293	2	396	VRLYSKDDPEAVKLQLLPHKH DIITLLGVGGHWVTTEENLQLD PPDSHCLFLKGATLAFNLNDEVW NLSNVQQGK*YLS*QSFQLRLK DVMEKLGTVFRPQSDHPIPVF EARISLEIVEKNQGR*NLKLF
20178	50546	B	20294	1	1182	
20179	50547	A	20295	1	1189	PTRPDQWEQAGSLTKDWKV AVVKVQAVGAQRQVTMKGL YFQQSSTDEEITFVFQEKEDLPV TEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIA\GIV LDVGSKVSPFPDDEVVGILP LDS*KTPGL\CESLLRVHEPLL FINPEKVTW/TEAAGSISGMGV RAYYSFLHLS/YLHLLSWGKSV LIMGGS/ASAFGTIAIQLAHHRG AKVISTACSLQEDKQCLERFRPPI ARVIDVSNKGVHVAESCLEETG GLGVDIVLDAGVRLYSKDDPE AVKLQLLPHKHDIITLLGVGGH WVTTEENLQDPPDSHCLFLK GATLAFNLNDEVWNLNVQQGK YLCILKDVMEKLGTVFRPQLD EPIPLYEAKVSMQAVQKNQGR
20180	50548	A	20296	3	115	FFKFSFFNGC*SIKRQSQGQALD RDIICFVDICTKDC

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20181	50549	A	20297	1	1401	MKEEELTRQIVLVQEAGKGVV RTKDGACAEVWQALELEKGL CAGIVRVEGMAAAPSYCFVAF PPRAKDGLVVF GKNSARPRDE VQEVVYFSAADHEPESKVECT YISIDQVPRTYAIMISRPALW GAEMGANEHGVCIANEAINTR EPAAEIEALLGMDLVRLGLER GETAKEALDIVVLSLEE HQGG NYFEDANSCHSFQSAYLIVDRD EAWVLETIGKYWAAEKVTEGV RCICSQLSLTTKMDAEHPELRS YAQSQGWWTGEGEFNFSEVFS PVEDHLDCGAGKDSLEKQEEI TVQTMNTLRDKASGVCIDSE FFLTASGVSVLPQNRSSPCIH FTGTPDPSRSIFKPFIFVDDVKL VPKTQSPCFGDDPAKKEPRFQ EKPDRRHELYKAHEWARAIIES DQEQRKRLRSTMLELEKQGL* AMEEILTSSEPLDPAEVDLFY
20182	50550	A	20298	1	356	QTPKIVADKDYSVTANS/KIVV VTAGVRQQEGESRLNLVQRNV NVFKFIIPQIVKYS PDCIIIVSNP VDILTYVTWK/ARFRYLMAEKL GIHPSSCHGWILGAHGDSVAV WSGVNLAG
20183	50551	A	20299	1	322	
20184	50552	A	20300	25	1086	
20185	50553	A	20301	1	864	
20186	50554	A	20302	13	190	

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20187	50555	A	20303	1	1350	MEKPKRLRLWGPAPSSLLAE PAPEETHAADVFVSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEATVPNN KITVVGVGQVGMACAIISLGKS RAMEHTTAGAPYTPRQQTCC NMMSLADELALVDVLEDKLG EMMDLQHGSLFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KSPDCIMVVSNNPRDMLTYGT WKLSGLPKHRVIGSGCNLDSAR FRYLMAEKLGIHPSSCHGWILG EHGDSSVAVVSGVNVAGVSLQ ELNPMTGTDNSENWKEVHK MVVESA\YEV\IQA*KGYTH\WA IGLSVA/EILNESMLKNLSR\HP VSTMVKGMYGIENEVFLSLP\CI \LNAGGLTSVINP\KVKDEVAQ LKKSADTLWD\QKDLKDL
20188	50556	B	20304	1337	1706	
20189	50557	A	20305	178	344	
20190	50558	A	20306	2	297	TKMTVNNLHPRVTEED\V/GQP MKCNLHMNGNVITSDQPIILLRL SDSPSMKKESELP RRVSASSS NPPAEVDPDTILKALFKSSGAS VTTQPTFEKIKL
20191	50559	B	20307	8	478	
20192	50560	C	20308	146	391	
20193	50561	A	20309	3	735	HRQKDARFRIKGVQDAREML NSRKQQTTPQKPRQVADARE KISLKRSSPAAFINPPIGTVPAL KLTKTIQVPQKAMAPLHPHPA GMRINVNNHQAKQNL\YDLD EDDDGIASVPTKQMKFAASGG FLVHHM\AGLSSSKLSMSKALPL TKVVQNDAYTAPALSSIRTKA LTNMSRTL VNKEPPKELPAAE PVLSPLEGTMTVNNLHPRVTE EDIVELFCVCGALKRARLVHPG VAEVG

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20194	50562	A	20310	1	1763	MEIASFVGPVNVTVGNI.RPAQS AAGDGDDEVQSVHSQRQDCQAT GSLNNGENNEKNAFTTYQQET KNTTTTPQSVYFLGVNKMSSQH REGSRGTSPLPLVACFELAVA RVGPRTPPEVVRSLAAEGAGSR GLDCFRLLARRIKMADISLDELIR KRGAAAKGRLNARPGVGGVR SRVGIQQGLLSQSTRTATFQQR FDARQKIGLSDARLKLGVKDA REKLLQKQDARFRIKGVQDAR RDV*TRKQQTTPVQKPRQVVA DAERERQLGRGRSPAFLNPPI GTGTPALKLTTTIQRMHVDVPG WILTTECFQVPQQKAMAPLHP HPAGMRINVVNNHQAKQNLV DLDEDDDDGASVPTKQMKFAA SGGFLHHMAGLSSSKLSMSKA LPLTKVVQNDAYTAPALPSSIR TKALTNSMRTLNVNKEEPPKELP AAEPVLSPLEGNKMTVNNLHP RVTEEDIVLEVFCVCGGLRRRA RLVPSGG*PKVVFCERDDAIT AYKKYNNRCLDGQPMKCNLH MNGNVITSDQPILLRLSDSPASM KKESELPRRVNSASSNPPAEV DPDTILKALFKSSGASVTTQPT
20195	50563	A	20311	1	915	
20196	50564	A	20312	3	3238	LDTDDDLNSDDYEYDEAKLVI FPDHYEIALPNIEELPALVSECA RLLARCAWLCVSLKSLTLLTDD TGLLTVRNKEEVLARS AKVTIA CDAVLSSKSPYRKQDPDTWEN ELPVSKYANNLTQLDNGVRIPP SGWKARCDLRENWLNLTDG SVLCGKWWFDDSSGGNGHALEH YRDMG\YPLAVKLGTTITPDGAD VVSFQEEEPVLDPHLAKHLAH F\GID\MLMHGHTENG\Q\NDI KL RVSEWEVIQES

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20197	50565	A	20313	2	2716	AEFRGIPRRRRQTPRSGSGSAR SAPVRAEAMQRRGALFGMPGG SGGRKMAAGDIGELLVPHMPTI RVPRSGDRVYKNECAFSDSPN SEGGLYVCMNTFLAFGREHVE RHFRTGQSVYMHLLKRHAREK VRGASGGALPKRRNSKIFLDLD TDDDLNDDYEDYED*AFLVIFP DHVEIALPNIEELPALVTIACDA VLSSKSPYRKQDPHTWENELPV SKYANNLTQDNGVRIPPSGW KSARCDLRENLWLN
20198	50566	A	20314	2	322	GAGAPRDWLRRRRGGAALCLK VLFDVRSFPREAAALTPIRLLO FPRSSSPGDQMAAARLLPVP AGPQPLSFQAKLTFFDVAVLLS QDEWDRLLCPAQRGLYRNVMM ETYGNVVSGLPGCKPDIIHFLE LRGISLGPVPEWG*EEGPVE*L L/ENVETKGESQNTDLSKPLIS EQTIVLKGTPLRIDQENNETK* SFCLSPNSVDHREVQVLSQSM LTPHQAVPSGERPYMCVECGK CFGRSSHLQHQRIHTGEKPYV CSVCGKAFSQSSVLSKHRIHT GEKPYERNRACISLYSEPHLAH LSLIHTGEKPH*CLECPKFTQL SHLIQHQRHTGERPYVCPCLG KAFNHSTVLRSHQVRVHTGEK HRCNECGKTFVSKRTLLQHQR VHTREKPYTCSECGKAFNDRSV LIQHNNVHTREKPYECSECGKT FSHRSTLMNHERIHTEEKPYAC YECGKAFVQSHLIQHQRVHT GEKPYVCGECGHAFSARRSLIQ HERIHTGEKPFQCTECGKAFSL KATLIVHLRTHTEKPYECNSC GKAFSRTQLLIQHQRHTGEK YECGECGGAFFNQHGHLIQHQ SAQKSCDPWLTQE/CPFSQKLH VEPTSSLQPKRSLC*LYRKLF DSVSQNSRKKHLACCSGKTS ETTCFIFLNHLEV/HVGE*SYNC
20199	50567	A	20315	1285	3331	
20200	50568	A	20316	1	319	
20201	50569	A	20317	1	2433	
20202	50570	A	20318	2	293	GELAGTQCTRGACPHSP*PLHR Q/HTTVTHITAFDPDSTGQQVW QDLLQDQGQLDSTGDDGSDWE MVGREVVPVLGPGVGGLVISRP CFHVRDPYPWG

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20203	50571	A	20319	1	537	GGGTITRGWRGQFCRWQLNPG MYQHRTVIADQMRTLRSREV** HAQGHKFTVCLRRREGQTVYQQ VLSLERPSVLRSWNWGLCGYF AFYHALYPRAWTVYQLPGQNV TLTCRQITPILPHDYQVRPPHLY LPLPSLPQDLPLETAWPARRG SHACNPNTLGGKAGGSRDQEIE TILANT
20204	50572	C	20320	3	170	RVGVSRREPEVRNWA TRDCRAQ ERMTHCLLHGMGRAGAASLTP KPMSLISAYCGGLWLA AVAVM VQMAALCEGTGQSRI SFLSSA GAKKPMRDCCGMVSSGSLSSL KAAERTPGALFFSSSTPGRYYN YDSSSRPQSRVMSDQVCWTV GVPEGLWP*EKGDT EVREEEEQ PERKMGFPWRWEVFPTQHVV ALQTIFELNVQAFAGGAMGAV NGMQPHGVDPKSSVQSDEVW VG VVYGLAATMIQE
20205	50573	A	20321	278	1018	
20206	50574	A	20322	3	627	

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20207	50575	A	20323	270	2945	NTSSFKLSPTTGPGRYLTTTGA RIWNRLARYLVSESGSLGAIEV MGTDQDPGNMGTGVPASEQISC AKEDPQVYCPETGGTKDVQV TDCKSPEDSRPPKETDCCNPED SGQLMVSYYEGKAMGYQVPPFG WRICLAHEFTEKRKPFQANNVS LSYMIKHIGMGLRYLQWRDRK THVEKKTFFIDMNKSPVPIQSYF VPLGGLRGGTSTRGWRGQFCR WQLNPGMYQHRTVIADQFTVC LRREGQTVYQQVLSLÆRPSVL RSWNWGLCGYFAFYHALYPRA WTVYQLPGQNVTLTCRQITPIL PHDYQDSSLPGVFVWDVENE GDEALDVSIMFSMRN/GTGWW RRCPRGFVGMSPSVWSVGVQT VRGLLLHSSNPSPKPLHDGLWLA RSSRAATTNPH/CTAFDPGRT GAAVWQDLLQDGLDSPTGQ RTPTQKGVGIAGAVCVSSKLRP RGQCRLEFSLAWDMPRIMFGA KGQVHYRRTYRVFAGIGDAP PALSHYALCRYAEWEERISAW QSPVLLDDRSLPAWYKSALFNE LYFLADGGTVWLEVLDSLP EERAEVTSAPTLDYRRFG*LE GQEVRYMYNTYDVHFIYASFALI MLWPKLESLQYDMALATLRE DLTRRRYLMGVMGTCEKEGT FIPHDIGGPRWMEPWASAFNAY LHIDTADWKDNLNKFACRFI
20208	50576	C	20324	123	359	
20209	50577	A	20325	1	259	KPVGEKDTWSGMRTTQGLRPA HGVRKANKDSLYKPILRQKK HFNSLHIPKALQKALPFKNKPK TQAKAGKVPKDRRR*TVSNITV
20210	50578	A	20326	297	585	
20211	50579	A	20327	182	374	PDFRIAAT*VVLDLKSIKIVKK LKLTFGPKYKFNKTSFIKACISY SHIYKSPYCLRKGMKYL

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20212	50580	A	20328	1	1267	MAANRKDFIHRRCGPESLSQSEA VPQGLCRAERSSALAMLSGSVP RRTQLRPCKGTQRRRCRRGGEA DSGGEAVGGGAERSSAAARR RGGRRRGGEAVGGGAERSS AAARRRRGRRRGGEAGGG GAAEARRAAARRAAARRA AAARRAAARRAAARRIAES GGEAHSRGEAHSGEAHSGGA GAERRRPRLHSPALKTHPGQSS EGHVEYKLNHFEDQDDDEAR VQYEGFRPGMYVRVEINVPCE FVQNFDPYPIILGLGNSEGNV GHVQMRLLKHLWYKKILKSQ DPIIFSVGWRRFQTILLYIEDH NGRQRLKLYTPQHHCGAFFW DIVFMRTWYLVSIAPFYNPVT LLKPVGEKDTWSGMWTTGQL RLAHGVRLKTKDLSLYKNHMI VETDTYSDHEEINTS
20213	50581	A	20329	66	1414	KEELYGDFEDLETGDVHKGS GPDTQNEDEVKEEIDPDEEES AKKKHLDDKKRLKEMFDVEY DEGESTYFDDLKGEMQKQAQV N/RHTRFPAPRHVQLNHAEF EDQDDDEARVQYEGFRPGMYVC VEINVPCEFV*NLDPYPIILG GLGNSEGNVGVYVQVGFPAAYL VPEALWISPPSILPSHPPQMRK KHRWYKILKSRDPIIFSVGWR RFQTIPLCYIEDHNGRQRLKY TPQHVHRGAFFRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSR IAATGVVLDLDSIKVVKLLKL TGFPYKIFKNTSFIKGMFNSALE VAKFEDAVIRTVSIGRQIKRA L*APGAFQDSLEDKLRMSDIV FMRTWYVSIAPFYNPVTSLK PVGEKDTWSGMWTTGQLRLA HGVRLKTNKDSLYKVLVVCVL VEMKPVLYRQ

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20214	50582	A	20330	4210	5099	AKDQKKHRKKNSGPKAAKKK KRLQLDLQLGDVEEDAWKRN KAFVAFQSAVWMARSFHRTQD LKTCKHHIPVVDARTPLEPPPIV VVVMGPPKVGKSTLI*CLARNF TRQKLTEARGPVTIVSGKKLRI THDCGCDINMMIDLGEVADLV LMLIDASFGFEMETFEFLNICQV HGFPMKIMGVLTDLDSFKHNKQL KKTCKRLKHRFWTEVYPGAKL FYLSGVMVHGEYQNEIHNGLH FITVMKFRPLTW
20215	50583	A	20331	56	467	
20216	50584	A	20332	282	452	
20217	50585	A	20333	1	1356	
20218	50586	A	20334	80	1096	GLGVVRVLRCPGVYRGPCTRAA YLGWLWTTLSPYCCLRSADMN PIVLVHGGGAGPISKDRKERVH HGMVRATTVGYGILREGGSAY DAVQGA VVALEDDPEFNAGCG SVLNTNGEVEMDASIMDGKDL SAGAVSAVQCIANPIKLARLVM ENFPHCFLTDQGAHFAGAMG VPEIPGKKLVTERNKKRLEKEK HEKGAHKTDCQKNLGTVGAV ALDCKGNVAYATSTGGIVNKM VGRVGDSPSLGAGGYADHDF* AVSTTGHGEISFLKVNLRLLTF HIEQGKLTLEAADPIG/CG*MKS RVKGLGGLIVVSKTGDWVAK WTSTMPWAAAKDGKPLPLRN
20219	50587	A	20335	1	1416	
20220	50588	A	20336	3	277	

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20221	50589	A	20337	235	2811	VKMEAPLRPAADILRRNPQQD YELVQRVGSQGYGVYKARNV HTGELAAVKIILEPGDDFSLIQ QEIFMVKECKHCNIVAYFGSYL SREKLWICMEYCGGSLQDIYH VTGPLSELQIAYVCRETQLGLA YLHTKGKMRDIDKANILLTD HGDVKLADFGVAAKITATIAKR KSFJGTPYWMAPVAAVEKNG GYNQLCDIWAAGTIAIELGELQ PPMFDLHPMRALFLMSKSNFQP PKLKDKTKWSSTFHNFKIALT KNPKKRPTCLKDF*HHTFVAQ PGLSRALAVELLDKVNPNPDH AHYTEADDDDFEPHAIIRHTIRS TNRNARAERTASEINFDKIQFE PPLRKETEAREDEGLSSDPNFM LQWNPVF*WQITGKSTSKR/A IPPLPPKPRISSYPEDNFPDEEK ASTIKHCPDESRAQILRRQSS PSCGPVAETSSIGNGDGSKLMS ENTEGSAQAPQLPRKNDKRDFF KPAINGLPPTPKVLMGACFSKV FDGCPKLKNCATSWIHPDTKDQ YIIFGTEDGIYTLNLNELHEATM EQLFPRKCTWLYVINNTLMSLS EGKTFQLYSHNLJALFEHAKKP GLGCPIFQTHRFPDRILPRKFAL TTKIPDTKGCHKCCIVRNPTG HKYLCGALQSGIVLLQWYFEM QKFMLIKHFDPLPSPLNVFEM LVIVEQEYPMVCVAISKGTESN
20222	50590	C	20338	365	389	
20223	50591	A	20339	1	350	FDVTELCGQWLVRGGEIEGFRL SAHCSDSRDNTLQVDINGFTT GRRGDLATHGMNRPFLLLMA TPLERAQHLQSS/RAPCCVPQAL EPLPIVYVYGRKPKVEQLSNMI VRSCCKCS
20224	50592	A	20340	1	708	
20225	50593	B	20341	229	1249	
20226	50594	B	20342	49	375	
20227	50595	A	20343	42	305	GARAHAPVLVQEEDLHGPHPL RPERL/PSVPSGRSSPPASRPVG PGG/DQLRPSDRQQQVSGME WC/PWSGRSPGLSPTVGRGGC HPTST
20228	50596	B	20344	8	1990	
20229	50597	A	20345	1	1512	

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20230	50598	A	20346	1	1663	SGRDRRGRAWKRNRREPPTRG RSPDPQGPSARPLPSLGARISAA DRLSGLAARLIGNSRPVAGANA GVGPDLSHAGLVPTCARLRRLR KNGLGRRRRRPPSPRPSLESS SRLTTLGTSPKFNFFPCDLRI FQTFNC\WGNPVL*AKHR\ADR MRRFGRPF*TQESFDLALLEEV WSEHDFQYLRQKLSPTYPAAH HFRSGIISGLCVFSKHPIQELT QHIYTLNGYPYMIHHGDWFSG KAVGLLVHLNMGELNAYVTH LHAEYNRQKDIYLTHLVGIQA WELAQFIHHTSKKADVLLCG DLNMHPEDI.GCCLLKEWTGLH DAYLETRDFKGSEEGNTMVPK NCYVSQQLKPFPGVRIQYVL YKAVSGFYISCKSFETTTGDFPH SGTPLSDHEALMATLFRVHSP QQNPSTHGPAERSPL/MCVCL KEALDGSGLGMA\QARWWA\ TFA\SYVIGLGL\LLALLCVLA AGGGAGEAAILLWTPSVGLVL WAGAFYLFHVQEVNGLYRAQ AELQHVLRAREAQDLGPEPQ LYALL\GQQEGDRTKEQ
20231	50599	A	20347	175	544	RLRCQKGIPPSLRGRAWQYLSG GKVKLQQNPGKFDQ\LDMSPG DPTWLDVIERDLHRQFF\FHEM FVS/RGGH/GQQDLFRVLDAYT LYRPEGSYCKTQAPIAAVLLMH MPAEQAFWCLVQICEKYL
20232	50600	A	20348	1	434	CAAGIRHELRRRLGWRTAT ERMGRACPRPGKACREPGRA* ARALTPQPPTNSALSGLTRRPT ASPS\PHRQVRLDRGLAGRQGR AGGSTPGGAEEAGVQVAGHAQ AMVVAARDACPPQHVPKDS APKDSAPQDLAPQVSAH
20233	50601	A	20349	3	510	

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20234	50602	A	20350	1	1669	MAKSNGENGPRAAAGESLSG TRESLAQGPDAATTDELSSLGS DSEANGFAERRIDKFGFVGSQ GAEGASILGQTVPSPHGRVGE PPIRSYTASSTGTGNRLVEVPLE VLRQRESKWLDMLNNWDKW MAKKHKKIRLRCQKGIPPSLRG RAWQYLSGGKVKLQONPGKF DELDMSPGDPKWLDVIERDLH RQFPFHEMFVSRGGHGQDLF RVLKAYTLVRPEEGYCQAQAPI AAVLLMHMPAEQAFWCLVQI
20235	50603	A	20351	1	243	
20236	50604	A	20352	70	382	
20237	50605	A	20353	2	322	
20238	50606	A	20354	86	215	
20239	50607	B	20355	1	735	
20240	50608	A	20356	92	1104	MSSPQAPEDGGQCGDRGA/PPG DLRSVLVTTVLNLEPLDEDLFR GRHYWVPAKRLFGGQIVGQA MVAATSV/SEDVHVHSLHC YF/VFRAGDP/KSLPVLYQVERT RTGVEA/FRLRSVKGP*NMKGPI FNCQIASFQQA/QPSPMQHQFS MP/TLPTTEELV*IVRTLFDQY LRDPNLQKRYPLALNRI/AAQE VP/EIKPVNPSPLRPAEEWEPEK QMFVWVRARGYIGKSTPWKM/ HC/CVAAAYIS/DYAFGLTALAA LTQWPSTRCHFHPPLD/HNPM WFHAPFRAD/HWMLYECESPW AGG/SRGL/VHGRLWRQDGVLA VTCAQEGVIRVKPQVSESKL
20241	50609	A	20357	3	1106	LRRQLQPLLPLKSPPRSGAHL GSLFRSPQSPYVPRPPGSAGTPP PACLPPAQPCQGSAMNLFRL GDLSHLLAIIILLKIKWSRSCA GISGKSQVLFVAVFTARYLDLF TNYISLYNTCMNVVVIACSF TVLIIYTKFKATYDGNHDTFR SGSSRVV/VPQAILGVSWSNHD FTPLAELWTFISYLVGSGPSLPQ LFHG*GKTGRGRETHSPATYLF CAKAFNPHALSLSNW/WR/YHF VEGFFDLIAIVAGPGPRQSSYCD FFVLYYSPKFLKGERKFEFCRIH RPRFLSISSPRAAAGRAGGKAG RKMKSFSHPRGDFFKNPTSLCS PIPPSCPGLKGNASRIPGLWGAQ RLGAVCSFLAF

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20242	50610	A	20358	356	1356	TPITSGRTRKMWPRPGT*PP/A NCSANINLTHQPWFQVLEPQFR QFLFYRHCRYFPMLLNHPEKCR GDVYLLVVVKSVITQHDRREAI RQTWARAAVRGWGPSAVRTL LLGTASKQEERTHYQQLLAYE DALYGDILQWGFLDTFFNLTK EIHFLKWLDIYCPHVPFIFKGDD DVFVNPNTNLEFLADRPQENL FVGDLVQHARPIRRKDNKYIIP GALYGKASYPPYAGGGGFLMA GSLARLRHHACDTLELYPIDDV FLGMCLEVLGVQPTAHEGFKTF GISRNRRSRMKNKEPCFFRAMLV VHKLLPPELLAMWGLVHSNLT CSRKQLQVL
20243	50611	A	20359	221	1579	CCVDEGLEPTCFERTEDIGGVW RFKVS EIFLGLQVVLFFQGESQ LMSCFSDFMPEDFPNFLHNSK LLEYFRIFAKKFDLLKYIQFQVL YFWGNGFLCISSAHI*IENTQSN GKEQSAVFDAVMVCSGHILP HIPLKSFPGETRWDSQLGVGF QVLYM*FEGKRILVIGMGNSGS DIAVELSKNAAQV*CSLLTMYL EGRKWGCHTGDWDSVFHTRFR SMLRNVLPRTA VKWMIEQQM NRWFNHNENYGLEPQNK*SYFA FLMVYSLVSKVV*RCLKVKST VKELTETSAIFEDGTVEENIDVII FATGYSFSFFLEDLSVKVENN MVSLYKYIFPAHLDKSTLACIG LIQPLGSIFPTAELQARVWTRVF KGLCSLPSERTMMMDIIRNEK RIDLFGESQSQTLTQNTYVDYLD ELALEIGAKPDFCSLLFKDPKLA VRLYFGPCNSY
20244	50612	A	20360	3	200	
20245	50613	A	20361	292	570	
20246	50614	A	20362	2	511	RLRSGPLRLPGADSGSGPKAVC SPPFIVAPTGRGYCGDHSSFGA MEEPGVTPQPYLGLLLEELRRV SPGAMSVTWPEGSREPPGEGSS RPALGSKPPWSEVPKPVLVCCP APARFEAVVRLVGRLSGFCVM EEDLGLWEGREKKLALMLSGLI EEKSKLLEKFSLVQKE

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20247	50615	A	20363	2	3262	FLSDLEENFENNIFSFQVCDVVL NHAPDFRRVYLPYVTNQTQYE RTFQSLMNSNSNFREVLEKLES DPVCQRLSLKSLILPFQIRTRL KLLQLNLKRTQPGSSEAEAT KAHHALEQLIRDCNNNVQSMR RTEELIYLSQKIEFECKIFPLISQS RWLVKSGELTALEFSA SPGLRR KLNTRPVHLHLFNDCLLSRPR ESVTGVAGQGTRGEGDEERG SEREREGSEKLRLWISALAMPRE ELDLLECYTAE
20248	50616	A	20364	2	2339	TGRGYCGDHESFGAMEEPGA TPQPYLG LLEELRRVVAALPE GMRPDSNLYGFPWELVICAAY VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSLL EKFSLVQKEYEGYEVESSLKDA SFEKEATEAQSLATECKLNRS NSELEDEILCEKELKEEKS KHS EQDELMA DISKRIQSLEDESKSL KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLESQKQLL QEAEVWKEQVSELNKQKVTFE DSKVHAEQVLNDKESHIKTLTE RLKMKDWAAMLGEDITDDD NLEEMNSENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYQLSEVDKTEELTEHIK NLQTQQASLQSENTHFENENQ KLQQLKVMTELYQENEMKL HRKLTVEENYRLEKEEKLKSV DEKISHATELETYRKRAKDLE EELERTIHSYGGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLE KDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAP DTGSLSPWDQDRMMFPPPG QSYPDALPPQRQDRFCNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFP/AKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPFPF

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20249	50617	A	20365	160	2810	GLRVPLSPSPRSRLRSGPLRLP GADSGSGPKAVCSPPFIIVAPTG RGYCGDHESFSGAMEEPGA TP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICA A V V GFFAVLFFLWRSFRSRSRLYV GREKKLALMLSLIEEKSLLLE KFSLVQKEYEGYEVESLKDAS FEKEATEAQSLEATCEKLNRSN SELEDEILCLELKEEKSKHSE QDELMA DISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQLQESQKQLLQ EAEVWKEQVSELNKQKVT FED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKHEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLKVMTELYQENEMKLHR KLTV EENYRLEKEEKL SKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFEL/LEEDPYALDV PNTAFGREHSPYGPSPLGW PPS ETRAFLSPPTLLEGPLTSLPLLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRA LSDTGFLS PPWDQDRRM MFPPGQSY PDS ALPPQRQDRFCNSGRLSGPAE
20250	50618	A	20366	131	461	

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20251	50619	A	20367	1	1761	MARGYGATVSLVLLGLGLALA VIVLAVVLSRHQAPCGPQAFAH AAVAADSKVCSDIGRAILQQQ GSPVDASIAALVCTSVVNQSM GLGGGVIFTIYNVTTGKVEVIN ARETVPAHAPSLLDQCAQALP LGTGAQWIGVPGELRGYAEAH RRHGRLPWAQLFQPTIALLRGG HVEAPVLSRFLHNSILRPSLQAS TLRQLFFNGTEPLRPQDPLPWP ALATITLETVATEGVEVFYTGRL GQMLVEDIAKEGSQTLQDLA KFQPEVVDALEVPLGDYTLYSP PPPAGGAILSFILNVLRGFNFT ESMARPEGRVNVYHHLVETLK FARGQRWRLGDP RSHPKLQNA SRDLLGETLAQLIRQQIDGRGD HQLSHYSLAEAWGHGTGTSHV SVLGEDGSAVAATSTNTPFGA MVYSPRTGIILNELLDCERC PRGSGTTPSTVSGDRVGGAPGR CWPPVPGEPSSSMEPSILINKA QGSNLVIGCAGGELIISAVAQAI MSKLWLGFDLRAAIAAPILHVN NKGCEVEYPNFSQEVQRGLQD RGQNQTQRPFPLNVVQAVSQE GACVYAVSDLRKSGEAGY

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20252	50620	A	20368	341	2239	LCASSCPFCFPIRPSVCPPAAPL LLGCRAMARGYGATVSLVLLG LGLALAVIVLAVVLSRHQAPCG PQAFAHAAVAADSKVCSDIGR AILQQGGSPVDATIAALVCTSV VNPQSMGLGGGVIFTIYNVTTG AQWIGVPGELRGYAEHRRHG RLPWAQLFQPTIALLRGGHVVA PVLRLHNSILRPSLQASTLRQ LFFNGTEPLRPQDPLPWPALAT TLETVATEGVEVFYTGRLGQM LVEDIAKEGSQLTLQDLAKFQP EVVDALEVPLGDYTLSPPPPA GGAILSFILNVLRFNGFSTESMA RPEGRVNVYHHLVETLKFAKG QRWRLGDPDRSHPKLQNASRDL LGETLAQLIRQQIDGRGDHQLS HYSLAEWGHTGTSHVSVLG EDGSAAATSTIYTPFGAMVYS PRTGIILNNELDLCCRCPRGSG TTPSPV/SGDRVGGAPGRCWPP VPGERSPPSSMVPSILINKAQSGK LVIGGAGGELISAVAAQIMSKL WLGFDLRAAIAAPILHVNSKGC VEYEPNFS/QETVSCFVALAVL KLLASSDPATLAPKWRL*EVQ RGLQDVRGQNPDEGPFFLDV PACV/SQEGACV*RPST*RKSG EAAGLLKTLCCPELEVLAPP
20253	50621	A	20369	203	1518	RCYLQFLALLLTSTSAARAAA AAAEEPPAGSPVMTRAGDHNH QRGCCGLADYLSAKFHL*LG HSLSTWGDWMHFAVSVFLVE LYGNSLLLTAVYGLVVAGSVL VLGAHGDWVDKNARLKVQAT SLVVQNVSVILCGIILMMVFLH KHELLTMYHGWVLTSCYILITI ANIANLASTATAITIQRDWVIV VAGEDRSKLANMNATIRRIDQL TNILAPMAVGQIMTFGSPVIGC GFISGWNLVSMCV EYVLLWKV YQKTPALAVKAGLKEEETELK QLNLHKDTEPKPLEGTHLMGV KDSNIHELEHEQEPTCASQMAE PFRTRDGVVSYYNQPVF/LGW HGSCFPLYDCPGL*LHHHRVRL HSGTEWFHPQYFDGSSISYNWN NGNCSFYLATSKMWFSGDRSD LRIGTAFDLVCDLCIHAWKP
20254	50622	A	20370	1	497	
20255	50623	A	20371	1	1575	

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20256	50624	A	20372	251	1351	SLKSTDGVKCLGINIFHKRRN ILFGMGNPLLDISAVVDKDFLD KYSCLKPNDQILAEDKHKELFDE LVKKFKVEYHAGGSTQNSIKV AQWMIQQPHKAATFFGCGIGDK FGEILKRKAEEAHVDAHYYEQ NEQPTGTCAACITGDNRLIAN LAAANCYKKEKHLDEKNWM LVEKARVCYIAGFFLHVSPESV LKVAHHASENNRIFTNLNLSAPFI SQFYKESLMKVMPPYVDILFGK* DRSWPTFAREQGFETKDIEIA QKDTSPCKMNSKGQRIRDLHP KGRDDTNIMATESEVTAFAAGLI KTQKEINDTNEAGDAFVGGLS QLVSDKPLTECIRAGHYAASIII RRTGCTTFPEKPDFH
20257	50625	A	20373	1	201	
20258	50626	A	20374	15	304	
20259	50627	A	20375	51	283	TWVKEAQNDGLCVYIFINCO MTGLDIEKD/QIEMACLITDSD LNILAEVRDAHVQSFLKGTG NITIFSSFFI
20260	50628	A	20376	2	520	QRRLRDWGRGWSRVMLGGS LGSRLLRGVGGSHGRFGARGV REGGAAMAAGESMAQRMVW VDLEMTGLDIEKDQIEMACLIT DSDLNLAEGNSVHEDKKFLD KYMPQFMKHLHYRIIDVSTVKE LCRRWYPEEYEFAPKKAASHR ALDDISESIKELQFYRNIFKHK
20261	50629	A	20377	2	206	EFGTRRHVPCLINFFKDQGS* LARLVSNWPQVIHPPWPPTVL GLRGVGHCPWPLGNSSVWV GGH

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20262	50630	A	20378	1	1401	MRSQKTSLVFSLEAKFYCSLRN ERIASCDIINDAGIQTKTLMKRS HVAYAIKKPVEQGDSFELISK GFMAITIAVCIEQNLRHSSSLFIC MSSTGGSGTTNASSLPSYVFT PPHFNLDDKQGRTAGKSHCGE DRKEHNNACHQEEAAPDYNPL HGLQASGSPGKTQRIKSSQALEG TRLVSHSEETRSGLIRLLRLRQR RLRDWGRGWCWRDMLGGSLG SRLLRGVGGSHGRFGARGVRK RGAAMAA\GESMAQRMVWVD LEITGLDI*KVQIEMACLTDS LILAEQPNLI\KQPDLLDSMS\ DWCK\EHGKSGLTAKVKEST NYHCQQA\VEFPALWYDQPD SLPGLCPTCQEIKFHE\DKKFP* QNTCPQFMKHLHYRI\DVSHC* KELCQTAGYP EYEFA\PKKAA FSIGPLDD\ISENLKVPFFPEN NHLPRKKIRMKRKEGKL*KMG ENEKTVS
20263	50631	C	20379	180	248	
20264	50632	A	20380	455	1133	GIEGWRGEADTLPAEQDQDGR RVSKGDI FSGGAETAQWGVGM GPFQAAPSKRAGREHRRGQRR VQHVGWYPRPGSDKGHGKGT QDSRPQLPPHPPIHLVSRHRG KLRRHGLRPMPEPRGLESKGTG NCFGELQH\RTSP*GRSGPREGG PRNIAQQGGCRGSACGRRSH\IE ALRPRV\WCGEGPQWTW\CAVC PNRSAPGAGLAD\RHHPGESRA WGETRLGEAGGAE
20265	50633	A	20381	214	412	
20266	50634	A	20382	3	257	PATVIHTVNTTWSAALISRESAL RSFPVKAAALSPSREGGSVTAT PNVRSMTSAVPIMRVSVQ\SKR *PEEQN*QETYPQITTSR
20267	50635	A	20383	1	1569	
20268	50636	B	20384	15	1744	

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20269	50637	A	20385	2	7205	QASGSCWSSPFFSASTPSAAAT GVPGPTDMAAVLQQVLERTEL NKLPKSVQNKLEKFLADQQSEI DGLKGRHEKFKVSEQQYFEIE KRLSHSQERLVNETRECQSLRL ELEKLNQKALTEKNKELEIA QDRNIAIQSQFTRTKEELEAEKR DLIRTNERLSQELEYLTEDVKR LNEKLKESNTTKGELQKLDEL QASDVSVKYREKRLEQEKELL HSQNTWLNTELKTKTDELLAL GREKGNIELEKCNL
20270	50638	A	20386	120	7384	GWTRFPRVPPRESPAGGRARAT ERGDRGGGPGVWVLLVFAFLL RFYPVGRCHWGPWAPPTWAA VLQQVLERTELNKLAPKSVQNK LEKFLADQQSEIDGP*RGHGHE I*RWSEQQYFEIEKRLSHSQER LVNETRECQSLRLEKLNQK KALPEKNKELEIAQDRNIAIUQ SQFTRTKEELEAEKRDILRTNE RLSQELEYLTEDVKRLNEKLKE SNTTKGELQKLDELQASDVS KYREKRLEQE
20271	50639	A	20387	2	433	
20272	50640	A	20388	2	181	GFRRVSLF*FPGVRWGMRLK GAPDLA PFSQM*SGGRAPCVAS *PPCRGLRLMRTGSR

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20273	50641	A	20389	1	2422	MAGALAGLAAGLQVPRVAPSP DSDSDTDSDEPSLRRSAGGLLR SQVHISGHFMVSSPHSDSLPRRR DQEGSVGPSDFGPRSIDPTLTRL FECLSLAYSGKLVSPKWKNFK GLKLLCRDKIRLNNAIWRAWYI QYVKKRKSPPVCGFVTPLQGPEA DAHRKPEAVVLEGNVWKRRIE VVMREYHKWRIYYKKRVSSGG GPGRPQSFPFAAGYRPPRKIPG KGILTPELAPLGFISQSRADSAT VWPQRLAASLPRGRRLRKPSPRE DDLAPKQAEGRWPPPEQWCK QLFSSVVPVLLGDPEEEPPGGRQ LLDLNCLSDISDTLFTMTQSGP SPLQLPPEDAYVGNADMIQPD LTPQLPSLDDFMDISDFTFNSRLP QPPMPSNFPEPPSFSPVVDLSFSS GTLGPEVPPASSAMTHLSGHSR LQARNSCPGPLDSSAFLSSDFLL PEDPKPRLPPPPVPPPLLHYPPP AKQETVPEPCTFLPPTAPTTP RPPPGPATLAPSRPLLVPKAERL SPPAPSGSERRLSGDLSSMPGPG TLSVRVSPQPILSRGRPDSNKA LLGSFLGSPNSLLPETENRRITHI SAEQKRRFNILGFDTLHGLVS TLAQPQLKVS KATTLQKTA EY ILMLQQERAGLQEEAQQLR\DE IEEL\NAAINLCQQQLPATGVPI\ THQRFDQMRDMFD\DYVRTRT LHNW\KFWVVSLLKPMAGGLQ
20274	50642	A	20390	315	387	
20275	50643	A	20391	570	1017	FCLHILQVPHTLAGHSPCAHG/R PPLPRF/HDRLPEEIQQIVRETF HLVLKRRDDNICNFLEGGSLIGG SDYKLIYRHYATLYFVFCVDSS ESELGILDILQLEQFKKDNEETG FGSGTRALEQALEKTKANIKW VKENKEVVLQWFTENSK
20276	50644	A	20392	1	1128	
20277	50645	B	20393	62	130	

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20278	50646	A	20394	99	718	ENRGWQSMIQAILVNNHGKPKRLVRFYQRFPEEIQQIVRETFHLVLKRDDNICNFLEGGSL*LGSDYKLIYRHYATLYFVFCVDSSESELGMLDLIQVFVGNWSWISCFENVV*IWJ*TFHMDKVHYILQEVVMGGWMVLETNMNEIVAQIEAPNRLEKSEGGLSAAPARA VSAVKNNLPEIPRNINIGDLNIKVPNL SQFV
20279	50647	A	20395	3	370	SLHLAAILGETSTVEKL/YAAGA GLCVAERRGHTA/LHLACRVGAHACARAL/LQPRPRPREAPD TYLA/QGPDRTPDTNHTPVAL/Y PDSLEKEEEEESHTPLHVAVIH K/DVEMVRLLRDAGADLDK
20280	50648	A	20396	2	1097	SRQSPATGGRLRWAPDAALAM AVVACLGQAADSKWGD SRLSLGPDAAA PGGPGLGAELGPGLSWAPLVFGYVTEDGDTFSAGT EYMDLQNDLRQVSHGWCRA WGP GFFP*LPTACPLLLQTALH LAAILGETSTVEKLYAAGAGLC VAERRGHTALHLACRVGAHAC ARALLQPRPRPREAPDTYLAQ GPDRTPTNHTPVALY PDSLE KEEEEESEEDWKLQLEVENYEG HTPLVHVAVIHKDVEMVRLLRD AGADLDKPEPTCGRSPLHLAV EGPRQADVLELLALRAGANPAA RMYGGRTPLGSAMLRPNPILARILLRAVHGAPEPEGEDEKSG PCSSSSSDSRLSPSAWSPLPPG
20281	50649	A	20397	47	478	LRLRLKAIMLAFGRGKTRNSE ESSDSQEVWIKDTWMFTALGH CGISMFGLDRELTLTNLYELFIS SSPTPS*VPORLCYVVSTFLMYL SLDHLYTGEMKAFLHVLDTQS VN SDFAFFVRLSFQYFYKLLCV L WQGTVNKEFI

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20282	50650	A	20398	1	1992	METFFVIGWQPAVTVWTIGVAP PPTLEITSQHEIWVAQHPNYIIS VKQESPAAMPWTAVALDSHRS MNTIVNCAREGSTLHAPYESLM PDDLRLWNSFILKSSPSPHSRSM ELSSMKLVPGAKYIRDHCLVK EALTIHKSPILLAIDLLGNLSG FTDYQSYVIHGCLENNPTLERSI ALFNGISKWVQLMVLSKPTPQ QRAEVITKFINVAKGATAELNL WQHPKIIMLSQVVPGVFSQEHS LIRSLHANLHFTVCFPEDPLAM VAGMVQESTCPCEILQLPTTGQ LANWNEMTELVSNGNYCNYR KPFTCDGLKIPILGVHLKDWA VHVNFDPWTTEEIKVNIVKMHQ LSVTLSELVSLQNASHHLEPNM DLINLLTV/DGLQPADLMHAISL FRTSHRPQGLFL*IKGTSPAHS DRSCQHFRV*KCSSWESWHGG/ WLSLEE*MSSFLLRSF*KI/YCSR KNVACQTRAVCTNLDALLSSS QMSNNHHFSLPAQDEVFEFFG VTAGHRDLDSRAITLVTGSSRK ISVRLQRATTSQATQTEPVWSE AGWGDGSGHTFFPKMKSKFHDK AAKDKGFAK WENEKPRVHAG VDVVDRGTGTEFELDQDEGEETR QDGEPAEAVSVGAVAAPGMSE KELLQVDGRTPTRVLRLMADLV GISEFRGEPAFV
20283	50651	A	20400	1	417	
20284	50652	A	20401	2	94	

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20285	50653	A	20402	190	2189	AFCPAGTRSAPCPRPRTMTMTL HTKASGMALLHQIQNLEPLN RPQLKIPLERPLGEVYLDSSKPA VYNYPEGAAYEFNAANAANA QVYGQTGLPYGPGSEAAAFGS NGLGGFPPLNSVSPSPMLLHPP PQLSPFLQPHGQVPPYILENEP SGYTVREAGPPAFYRPNSDNRR QGGRRERLASTNDKGSMMESA KETRYCAVCNDYASGYHYGV WSECGCKAFFKRSIQELPTLC*I GWYWYQNRDIDQWNRTEPSEI IPHIYNHLIFDKRDKNKKWGKD SLFNK*CWENWLAICRKLKLD HFLTPYTKINSRWIKDLNVRTK TIKLEENLGNTIQDIGMGKDF MSKTPKAMATAKADKDWLIK LKSFCSLLGYLKTENTAKETTIR LNRQPTWEKIFAIYSSDKGLIS RIYKELKQIYKKK/GNPINKWV KDMNRHFSKEDIYAANRHMKK CSSSLAIREMQIKTTMYHLTP VRMVIIIRKSGNDRCWRCGGEIG TLLHCWWDCKLVQPLWKTWV RFLRDLQLEIPFPAIPLLGIIYPK DYKSCCYKDTCTRMFIAALFTI AKTWNQPKYPTTIG*IKKMWHI YTMEYYAAIKKDEFI/SLVGTW MKLETIIILSKLTQEQKTKHHMF SFITGSRTMRTHGCREGNITHW GLLRDSVNMVMTQAH
20286	50654	A	20403	2	907	RVPAMATSSFALPRILGAGARA PSRWLGFGLKATPRPARPSRRT LGSATALMIRESEDSTDFNDKIL NEPLKHSDFNVKELFSVRSLF DARVHLGHKAGCRRHFMEPYI FGSRLDHDIDDLAEQTATHLQLA LNFTAHMAYRKGIILFISNRQF SYLIENMARDCGEYAHTRYFM GGMLTNARLLYGPTVRLPDLII FLHTLNNIFEPHVAVRDAAKM NIPTVGIVDTNCNPCLITYVPVG NDDSPLAVHLYCRFLFQTAITRA KEKRQQVEALYRLQGQKEPGD QGPAPHPGADMSISL
20287	50655	B	20404	70	1477	

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20288	50656	A	20405	153	688	AHPLLRSSEPTSRSRKPRCATT NGFLRIPEKTTIPVSPEVAIHRNR VITPNKPPTVKSLKVFCLDKE AQKEKESQK*KGPRVMPKTL RITTRKTPACGE/GSKDRWDRF QIEISQSRLLH*LCTSPF*DLFKQI TFHQYLSPGV*GEKSPFADALS QISIHTIDDDQFVKKKKKKKW
20289	50657	A	20406	26	603	RPRGTLREYKVVGRCPAHSHK CHTPPL\YRMRNFAP\NHVVA KS/RAFVYFVSQLKKDEESLPG EIVYCGQGV*ESSPCGSKNFI WLRY\DSRSG\THN\MYRE*PGP *PTAGGCSPCYPRHGVARHAG PEAHFHFRFIERLEEJAGQQNC RRPGCSKQFPRISRKFPLAPP SLRRQDKPRF\TTKRPNFTF
20290	50658	A	20407	161	418	
20291	50659	A	20408	1	2580	
20292	50660	A	20409	3	264	
20293	50661	A	20410	3	302	ALALLSPWVVDGTRHRGAGGG AHPGGSGRTGAHRGGGRLRHG GLQVSPAPREGS*GPARNRAQ RRAVDRTO*ECSSKEVYT*RLV PPPLGLHSHSSPE
20294	50662	A	20411	2	415	
20295	50663	C	20412	1	1230	
20296	50664	A	20413	238	1765	VTAYHAATMNEVSVIKEGWLH KRGEYIKTWPRYFLLKSDGSF IGYKERPEAPDQTLPLN\NFSV AECQL\MKTERPRP\NTFVIPC QLTNHIRTGL\HTLVSPNQRE\W NPPYQVVPQPSRGGPKARTP WNNKCGSPK*LSHD*ENGSGGS ASHG/RKVTMNDSTYLNLLGK GTFGKVILFRKKTAGR*FA\MK NFRKKVINAKD*VAHNIQPRAG VLPEHPGNPFLQLR*KYAFDP TTRPVPL*MEYA\NGGELFF\HL SRERVVFTEERA\RFYGAIVSA SEVTWHSRGRGNTRDNQSWKT LMLEQKMAHIK\ITDFGL\CKRG ASSDGAT\MKTFCEP\EYLAHE NLEDNDYGRAVDW\WGLGVVM YEMMCGRLPFYNQDHERLFELI LMEEIRFRTLSPKAKSLLAGLL *KDPKQRLGGGSDAKEVME HRFFLSINWQDVQKLLPPFK PQVTSEVDTRYFDEFTAQSITI TPPDRYDSLGLLEAGPADPASP QFSYASISRE

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20297	50665	A	20414	192	866	LSCRMRLVLGNPTLDSIDRS GVRSKRIFNKLRESFHNSAE LTISVNNMYNCCSGNFSSRSCG DYLRYPPASSRGFSYPSNLVYST DLCSPTCQLGSSLYRGCEIC WEPTSCQTSYVEVQAPAKTSC YRPKNLPCASAPCKTTYSGSLG FGSSSRSLGYG*GSCYSVGC SSGFRSLGYGGCGFPGLGYGVG FCRPTYLASRSCQSSCYRPTGCS
20298	50666	A	20415	312	1420	RSHSNAPSVVWNLTLPLDSGPH QSPASTTGCTINTERSSVPMSCS PPACPTQCVLCSCTEGQIYCG TTCPGPGCAPLPLPDSCCQACK DEASEQDEEDSVQPLHVVRHP QDPCSSDAGRKRGPPTAPTGL SAPLSFIPRHRFPKGAGSTTVKI VLKEKHKKACVHGGKTYSHGE VWHFAPRAFGLPCILCTCEDG RQDCQRVTCPTETPAC/RHPREK WPGKCKKICPEDKADPGHSEIS STRCPKAPGRVLVHTSVSPSPD NLRRFALEHEASDLVEIYLWKL VKDEET*GSGEVKYLAQGHATA RIFHLTQIKKVRKQDFPERGTA LPTARWPPRRSLERLPSDPGAE GHGQSRQSDQDITKT
20299	50667	A	20416	17	1008	KSGARSLQQLRAPEDGGPLS LPNAAMARGPKKHLKRVAAP KHWMLDKLTGVFAPRPSTGPH KLARECLPLIIFLKDQTLNALT GDIEVKKIICMQRFKIDGKVRT DITYPAGFMDVISIDKTGREFF VL/YLIDTQGVRFCL*HRIYTLR EGQSTSLCKVRKILLWAPKGIP HLVTHDARITRVPDP/LIQGE MNTHSRLI*KTGKI*FSPKFDH LVTCVMVTGGANLGRNWVLI TQQRRTSLGS*PLVHVKIDAN GNKLLATSDFSNIF/VVIGKGNK PWISLAPRGKIPPHHLEERDK RLAAKQSSVVKWGPVWTVSD
20300	50668	A	20417	1	1377	
20301	50669	A	20418	1	2178	
20302	50670	A	20419	158	250	

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20303	50671	A	20420	1	860	MDQTVKSLMASEEEYSTKEEK YEKEMKLLLEELKEAETRAEF VERSVAKLEKTTDDLEETLASA KEETWRFIRPGTRPYWNSATCF LLPGHKMAAEVHKLNPNVSEH DQERWHDAFGNGGADNHSKL QASTRRGGPLSQELLQSLAASL AAGGLTALSAEFTIGKGELMAH DVLWGCAPEYDDLISGTCSHL PKGKTHDVLGTGDDGRHSNTS LA WGAGVQFNPTESVAIDIAVE GPGSGDWRTDGFIVGGLFCGV NMAVKISGVLKDGTGKPVQN* TIQLKAKRNTTVVNTLASEN PDEAGRYSMDVEYGYQSVILL VEGFPPSHAGTITVYEDSQPGTL NDFLCAMTESIDARPEALGRFG LYWWKEVARNASAVGQNTA AAKKSASDASTSAREAATHAV DAGGFKNAQARTSSPDKAGSA GFKQGFPRGGNGINKRAT*RIK KVACR*SLMASEEEYSTKEEKY EKEMKLLLEELKEAETRAEFVE RSVAKLEKTTDDLEETLASAKE ETWRFIRPGTRPYWNSATCFLL PGHKMAAEVHKLNPNVSEHDQ ERWHDAFGNGGADNHSKLQA STRRGGPLSQELLQSLAASLAA GGLTALSAEFTIGKGELMAHDV LWGCAPEYDDLISGTCSHLPK GKTHDVLGTGDDGRHSNTSLA WGAGVQFNPTESVAIDIA YEGP
20304	50672	B	20421	34	800	
20305	50673	A	20422	130	368	RQVITTLYIPYRRRLSPDPPEQ PLNHKQNRKVNHHGTEFQVVV LPFPKMKINCYRRNQFFLFFFST VKVPVGWSMVPLQAATAGAR L*NSDISPLKSQQTQDKFPSSKP PHIYIKK
20306	50674	A	20423	1	57	

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20307	50675	A	20424	85	874	GPRGLVSMAGGSVEVTPSTFTC YLPPSASPPTPPSHPGLLPRSPA LCSLHTGARTLPLFGGRCSSA VLPPRPGP/RAGSGGQREHFHR FQPTYPYLQHEIDLPTTISLSDG EEPPP*QVPCHLQVR/DPKQQLA ELNRE/SVGAPPNR TIFDSDLMD SARLGGPCPPSSNSG/ISAPTCYG VSGGRMEGPPATYSEVIGHLPG GPSFQH/QSSGPPSLLEGTR/L HPHTHSRP*RSAAIWSKEKDKQ KGHPSLGSPGGPGLGLRR
20308	50676	A	20425	3	250	ESVSATEDLAPDAAQGEDNSEI KELLARENELPACNGPAQAQPS PTTERAKSQEEVLPSTTTPSPGG ALSPSGQPSSSVDA
20309	50677	A	20426	2	393	
20310	50678	A	20427	1066	1824	
20311	50679	A	20428	3	902	
20312	50680	A	20429	1	2163	
20313	50681	A	20430	1	1890	
20314	50682	A	20431	1	2882	MKQQLPVSYLQVIFNH WASRJS GARGAGWGPVRLGRLCADRAL DGESRPGGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPTSKLLHFSAFHFFIYKC RAEGHKLKDKNLFSAVKVM HESSKRVSSETLQFIYY/SEWYGH EELKAIVWNNDLLWEDYEKEL ADQAVRTMEIYVAQFSEIKERI AKRGRKLVDYDSARH

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20315	50683	A	20432	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKFSRAQEKVLQKLG KAVETKDERFEQSANNFYQQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSWDGHE ELKAIVWNNDDLWEDYEELK ADQAVRTMEIYVAQFSEIKERI AKRGRKLVDDYSARHHLEAVQ NAKKKDEAKTAKAEFEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTSLSLKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQSPPTTERAKISQEE VLPSSTTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSEIRPKKT ASIQRTSAPPRPPPPRATASPRP CSGNIPSSPTASGGGSA/TSPRAS LGTGTASPRTSLEI*PNPE/PPEK PVRTPEAKENENIHQNPEELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSEGQDQLQV SMVPENNNLTAPEPQEEVSTSE

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20316	50684	A	20433	158	1830	QLQSKMKLFWLLFTIGFCWAQ YSSNTQ/SKGRTSIVHLFEWRW VDIALECEERYLAPKGGFGVQVS PPNENVAIYNFRPWERYQP/ VSYKLCTRSQNEDEFNMVTR CNNV\GVRIYVDAVINHMCWN AVSAGTSSTCGSYFNPWKLRTF PAIP\YPGWDFNDGKC\KTGSGD IENYNDAQVRDCRLTGLLDL ALEKDY\VRSKIAEYMNHLIDI GVAGFRDLASKHMPGDIKAI L\DKLHNLSNWFPAAGSKPFIF QEVIDLRVGEPNLKASDYFGNG RVTEFKYGA\K\GTVIR\KWDGE KMSYLKKWG\EGWGF\MPSDR ALVFVDNHDNQRG\HGAGGASI LTFWDARLYKMA\VGFM\LAHP YGFTRV\MSSYR\WAKHSFKKG NDVNDW\VGPTQINNG\VIKEV TINPRH*LVGND\WV\CEHRWR IQIRNMVNVFRNGSGMAQPFQ NWDYDNGSNQVA\FGRGNR\GFI VFNK*WPVIFI*LCKPGLPAGSY CDVISGDKVIGNCSAIKIPVSVD GKAHFSMSNSAEDPFLAIIHAES KIVKFKIKCKSAKQKKKKKKG RPF
20317	50685	A	20434	3	383	
20318	50686	A	20435	1	378	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNPSPP GGKEAETROPVVILLGWGGISK DKNLVKYSAIYHKRKLLELLFD YEIEKEPPAFSLSSATVASCCTA TCWSSCRPVASAAACV
20319	50687	A	20436	1	558	CASGSSGWRPVLWAGAFTMAS AELDYTIEIPDQPCWSQKNPSPP GGKEAETROPVVILLGWGGCK DKNLAKYSAIYHKRGCIYRYT APWHMVFFSES LGIPSLRVLAQ KLLELLFDYEIEKEPLLHVFNSN G\VRHVA\PLTCWELLQTRRFCR LRVVGTFIDSA PGDSNLVGGSA GLGSHPGARG

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20320	50688	A	20437	78	1237	CWSHSDTYWPRTPRPPPGRPG PVVHLAQPVLHPEAGIPEFWES GSPGQTRGAALVLTVHICVSEN SPSPGGKEAETRQPPVILLGWG GCKDKNLAKYSAIYHKRNTAT LQPPLTYMRGWGLFTGAPAD QYLIQIKRISQWLRGCIVIRYTA PWHMVFFSESGLPSLRVLAQK LLELLFDYIEKEPLLHVFSNG GVMLYRYVLELLQTRRFCRLR VVGTFIDSAPG*QQPG*GLSGP GQPSWERRARMLRLLLVAF ALGGSSCFHVLLAPITALFHTHF YGQAYRTRALAWPELYLYSRA DEVVLARDIERMVEARLARRV LARSVDVSSAHVSHLRDYPY YTSLLCRTSMRKLRLPKAIAPS HLCSQKINALKPSP
20321	50689	A	20438	3	427	
20322	50690	B	20439	101	1099	
20323	50691	A	20440	733	2228	

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20324	50692	A	20441	582	2595	PPPPVRRRDGPAAVRPAGAMA KKSANGIYSVSGDEKKGPLIA PGPDGAPAKGDGPVGLTGG RLAVPPR/ETWTRQMDFMSCV GFAVGLG\NVWRFPYLCYKNG GGVFLIPYVLIALVGGPIFFLEIS LGQFMKAGSINVWNICPLFKGL GYASMVIVFYCNTYYIMVLAW GFYYLVKSFSTL/PWATCGNY/ TWKHSPTCVEIFRHEDCANAS LANLTCDQLANR/RSPVIEFWE NKVLKLSGGLE/VPGALNWE/V TLGLLACWVLVYFCVWKGK STGKIVYFTA/THYPYVVLVVL LVRGVLLPGALDGIIYYLKP DW SKLGSPQVWIDAGTQIFFSYAIG LGALTVLGSYNRFNNCYKDA IILALINSGTSSFAGFVVFSILGF MAAEQGVHISKVAESGPGLAFI AYPRAVTLMPVAPIWAALFFF MLLLGLDSQFVGVGEGFITGLL DLLPASYYYRFQREISVALCCA LCFVIDLFMGTDGGMYYVQLF DYYSASGTLLWQA/FWECVV VAWVYGADRFMDDIACMIGY RPCPVMKR/CWSFFTPLVC/MGI FILNVVYYEPLVYKQN/TYVYP WWGEAMG/WPFAIS/SMLFVP LHLLGLPSLRAKGHPWLKRW QHLLTQPIWGLHPL/EELPRFRD ADVQGLTHP*TPVSESSKVVV
20325	50693	A	20442	I	363	MGKRGLILLIEACIAIQPLQRW FVVPFRAGMPVTYD/HSNSAAG SPPV*NARLCSPGEKVLCSRQT GNFPHTPQEQA/VPSAWNALPV QP*SH/GPSPMLVP/CRVCVCMET RVQGSASPGGQG
20326	50694	A	20443	747	1389	LGAVQLCPPPCRPCCHRAALPGG LFPPPRPPHSPQAGPLHPQWTQ* PGSVGSPTQLSPEASRPQWPPT A/GSPRAGVHPGHGQA*SADISS AKQWTQVGPAGQGGSKFGKT KVPWQSGPLGWDPGARAGQG VG*ETRGPQLQAWSDEGV/P GWRGSYRGHRRGP*PPAPWPW SGGHPGSPMEWPCPGTELQMR NRAGSRDLHSLGRAPPAATAPS

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20327	50695	A	20444	90	1181	RAEPLQVPGVPGSAQKPQGT QMAPVSPRRGPQRGWHTLGAQ RLLPQAALSSPAFPQHPGGRWA PRRRGQSSQGHSPESLPSERAQP HWNHPQLLSPCTPLSCP*GGPR QA/EQAGDSGSGTWVGLGAAP SERGAPMSARHWLRAPGRPIF LLSALW*TPAWGGGPAASRSP GGPSSRVVGCPLCLAPGPVPS VE*RPMTSKDLPPSPR*K/P APV*/SPKAVGIPAWERPPT PETEGAGGSCAERLLAPVEMAP VSRGQRRDPFEGSRHG/DPPTDT AALGGPRPPQHLPRTRQHWI* GPGAPPTDTAALGDLRPQSPGL LMELGPISRDPHGRGPWQGPV GKLWPGGQSGSCPQSPPV
20328	50696	A	20445	2	957	IPSRKDHEKAEFEVHEVYAVDV LVSSGEGKVRVPELAKRGD*E CSPDQMLLKLLFQAKDAGQRT TIYKRDPKQYGLKMKTSRAFF SEVERRFDAMPFTLRY*AMIVL GTSLTRPYTQEHFSLPA*TC SVHVLTPSLSLPISFLKVM*K NPKHDFCLRVGAILKYEQNGK T*WGVKDTSEYHLPCQAFED KKARMGVVECAKHELLQPFNV LYEKEGEFQKELHFGFPDYKISF L*VQKS*V*QRNFLSKHIFIFAIG EFVAQFKFTVLLMPNGPMRITS GPFPDLYKSEMEVQDAELKA LLQSSASRKT
20329	50697	A	20446	85	266	

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20330	50698	A	20447	207	1759	LSQRALRLSPRARSFSLSPACPL PCLLALSALSSRIEGLTTACG WGRETEAAAQGGKRGCSGGSR KMSGEDEQQEQTIVD/DSL VVT KYKMGGDIANRVLRLSVEASS GVSVLSLCEKGDAMIMEETGKI FKKEKEMKKGIAFPTSISGTIN *PI/CHFSPPERSD/QDYIPPRKGD LVKIDLGVPCWGMGFIANVASH/ SFVV DVAQGTQVTGRK/ADVIK AAHLCAEAA/LRLVKPGNQNT QVTEAWNKVVAHSFNCTPI/EG MLSHSLKQHVIDGEKP*FQNPT DKQKRAHEKADFEVHEVYAV DVLVKPQERARPKDAGQRTTIY KRDPKQYGLMKMKTSAFFSE VERRFDAMPFTLRAFEDEKKA RMGVVVECA/KHELLQPFNVLY EKEGEFVAQ/FKFTVLLMPNGP MRITS/GPFEPDFYK/SEMEV/Q DAELKALLQ/SSAKSEKPKKKK KK/KASKTAGEWPLVAFSAVLE TFRRKWKLGGLVGPISPACCS CLHPPSHQTPRLCEVQFFST
20331	50699	A	20448	1	3825	ARERSLRGSPAREEREKERKCTA LSE*GEQMERKTN*TKQTE*N RNEIGPRGAGPPGDAGSGRQPA LRPHVHKQTEKTRVRTVLNE KQLHLTRLTCYANPRPDALMK EQLVEMTGLSPRVRVWFQNK RCKDKKKSILMKLQQQQHSD K/SGEQLGRRLSEGGCASA VSACPFLGEPWEIQGELGAPDG VCLYLHASKASLGFEASYFVWD RGFSLSQWQPRVAGSGRCAEP KAAWQCAAPASRAGGLCTPSA AAERSPVEKEGSSDAIECAPPR KAMQTLNHSRPGAPVSKVAEK ARPNSTYCLLLAPQSLQGLTG TPLVAGSPIRHENA VQGS AVEV QTYQPPWKALSEFALQSDLDQP AFQQLGLLSAGGRSPRDTFRLG ARGPGAPARVPLHLPLPGVSAA PVSFSESGSLGSSGSDVTSLS QLPDTNSMVPSPVET
20332	50700	A	20449	1084	2429	
20333	50701	A	20450	133	276	WDTSS*SLRTPRSRQVSTRPRR KKEKLPSKGMFSSVSLPQVL.TQ RHQRPTCSWSL.CWQPQLHLLR S
20334	50702	A	20451	2	205	

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20335	50703	A	20452	182	411	GRAWPAPPTSVTPRLRSPAESP RWPSAEERSSLP/VRGRRPGYG* VSCCGPRAPPGVNGDALRSARP AQLPA*RPQRH
20336	50704	A	20453	786	1208	GVHRTHTGRQKWRFCAPRAQ HSWGPGGRLPAGCRG*AGSCA/ PSLGL*CGAGPQGWGRDP*TR RRTPRRPPRGPRPRVWMAAPPAR SHPWRAAPRSAGAAPRLGLG GRSGRETRPAPGGELQRPAAAG PPLMSCGWRVVLA
20337	50705	A	20454	385	727	KAMSPVFPRIHSKWDLDSRLPF TSAALLSACKILKLVKDNKMK VATSGVKKSYI*STV*TTREDW TAGRQRTWRCIYSTTEEKEDSG *SPSKGNGEGRGDAT*TTER*RS DTGL
20338	50706	A	20455	568	3382	HPGWVARGPAGEGHAAGCG PARCQAGGPLQDGGCGGQGH FGGGHVPEIKGGFFPHAGACAL EERQPR*QP*GVGKRGGGLFHA SSSPSSGGSRTEPAEG*GGA VCR AGDLGHIDDAGDHGDSGK/KE RVEEEGGKPKHVLSTSGVQSD AREPGEESQKADVLEGTAEALP PIRASGLGADPAQAVVSPGQGD GVPGPAQAFPGHLPPTKVEAK APETPSNLRGTGLELAPAGRV NVVSPSLEVAPGAGQGA
20339	50707	A	20456	762	1245	LRQYSVKMRIVPTILLNFGADP DLRDIRYNTVLHYAVCGQSUS LVEKL/LLEYEADLEAKNKDGYT PLL VARY*QLIPKLVKFLLE/KG ADVNASDNYQRTALILAVSGEP PCLVKLLQQGGEICNEG/MVD SQLRNMFISMVLLHRYPQFTAS HGK/QKHAK
20340	50708	A	20457	346	608	PKRRGAPLPVIPSQAS*KPKLPM GRPPPPVPSVPGPLPGSLAIA HSLEPHLVQSSCLVVPPTKQS KRKPGRGAQAPTLPNATEFSVC RNDPKEGGRSP*FPNRLLEPE APPRPSAGESPRPAA/SPLPCSE EK/PTPQLCARERLAPSAAPPPP PRCGAPLLEPSAWTPELARRA

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20341	50709	A	20458	340	889	SAPFSSGERTPGCEASFPFGGG GGNARPSGPAHPSPSSAS*KPKL PMGRPPPPVPSVSPGPLPGSLAI APHSPEPQLVQSSCLVVPKTK QSKRKPGRGAQPTLPNATEFS VCRNDPKEGGRRSP*FPNRLLE PEAPPRPSAGESPRPAAA/SPLPC SEEK/PTPQLCARERLAPSAAPP PPPRCGAPLLEPSA/EAEEGGW GAGPLGRALPPPPGKGLASGQ PGVRSPEKGADQRQPSGPRLC SAPAPRRRS/PPRRRRPSNFVPED QPHYVPGSASAGPRRSRPPRR ELGAPSHLP
20342	50710	A	20459	148	397	GHKELVTGTEAIELAHAYETCH AVPRTIAKLVPKTHLMSESEW RNLGVQQE/RQGVVHYMIHEP EV*HFGCSRRLTQGTQRK
20343	50711	A	20460	139	272	VLKPGGSYSFGSPSCNSSH*LIG FQKWKDVPCEDKFSFVCKFKN
20344	50712	A	20461	440	1167	ARDSLQLSMAQTSSYFMLSCL MFLSQSQGQEAQTELPQARUSC PEGTNAVRSYCYF*WKTRET WVVDADLYCQNMNSGKLGVC GSPRAEGCLFWPQLI*GGVGT* WTFNVLDLGLQ*PPKTRRW/H WEQWGPLVSLQSSWGHWEPPS RCLNPGVY/CVSLDLQSTRSRN WKDVPFVKDKFSFVCKVQKT RGQAGKIQCLELTPAITNGVQK LNRTISPTQLNLVTLSAEFALLI FNSFT
20345	50713	A	20462	3	322	
20346	50714	A	20463	1	420	DLVELVQYAGNIIPRLYLITVG VVVYKSFQSRKDILKDLVEMC RGVQHPLRGLFLRNYYLLQCTR NILPDEGEPTDEETGDISDSMD FVLLNFAEMNKLWVRMQHQG HSRDREKRERQVSWRCKCG TLQIQIVLTG
20347	50715	A	20464	1	1446	

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20348	50716	A	20465	3	2564	LGAGAACCRLLWGVAMPTTQQ SPQDEQEKLLDEAIQAVKVQSF QMKRCLDKNKRIGVRHKTML RNMLGIELRTSMLSPKSYELY MAISDEHLHYLEVYLTDEFAGGR KVADLYVELVQYAGNIYPQGF YLLVHSLSCNNVKSPQSRIRDI LKDLVEMCRGVQHPLRGLFLR NYLLQCTRNLPEDEPTDEETT GDIRDSMDFFVLLNFAEMNKLW VRMQHIGHSRDREKRERERE LRILVGTNLERLSQVE/WCKCG TLRQIVLTGILEQVNVCRDALA QEYLMCEIIQVFPDEFHLQTLNP FLRACAEHLHQNVNVKNIIIALID RLALFAHREDGPGIIPADIKLFDI FSQQVAVTVIQRQDMPSEIDV VSLQVSLINL/AMKCYPDRVAD YVVDKVLGNNSGRIFNKLNLH ATSSAVSKGNFTRLLGKLPVGH FTNNILTVLKLKHFHPLFGYFD YESRKISMSCYVLSNVLDYNT EIVSQDQVDSIMNLVSTLIQDQ PDQPVEDPDPEDFADEPEALV ARFIHLLRSEDPDQQYLINTAR KHFGAGGNQIRFTLPPLVFAA YQLAFRYKEISKVDDKWEKKC QKIFSFCTKTISALIKAE/LAQE LPLRTFSFKGGT*LA/AGELGFG NHGTVAYVEFMSQGIFSVWKD/ EKSQDFPKAQLGWPTFGSIGA LFRERVEVLSVEEDSNWNLRTQ
20349	50717	C	20466	23	385	
20350	50718	C	20467	16	435	
20351	50719	A	20468	1	436	
20352	50720	A	20469	1	747	
20353	50721	A	20470	1	864	

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20354	50722	A	20471	2	2138	VGRAAAAAA AVAVPLAGGQE GSPGGGRRGSRGTTMVKKRRKG RVVIDSDTDSGSDENLDQELL SLAKRRSDSEEKEPPVSQPA A SSDSETSDSDEWTFGSHKHKK KGQARTLEQKGTMKKQANKT ASSGSSD/RTDSSAESSA PEEGE VSDSDSNSSSSSDSDSSSEDEE FHDGYGEDLMGDEEDRARLEQ MTEKEREQELFNRIEKREVLKR RFEIKKKLKTANKKEKKEKKK* QEEEQEKKLTLQIQESQVTSN KERRSKRDEKLDKKSQAMEEL KAEREKRNRATAELLAKKQPL KTSEVYSDDEEEEDDKSSEKS DRSSRTSSSDEEEFEIIPPKSQP VSLPEELNRVLSRHKLWRWCH MFFFAKTVTGCFVRIGIGNHNS KPVYRYAEITGVVETAKVYQL GGTRTNKGLQLRHGNDQVRFR LEFVSNQEFTSEFMMWKEAM FSAGMQLPTLDEINKKELSIKEA LNYKFNDQIEEIVKEKERFRK APPNYAMKKTQLLKEKAMAE DLGDQDKAKQIQDQLNELEE RAEALDRQRTKNISAIYINQRN REWNI VESEKALVAESHNMKN QQMDPFTTRQCKPTIVSNSRDP AVQAAILAQLNAKYGSGVLPD APKEMSKASVGQGGKDKDLNSK SASDLSEDLFKVHDFDVKIDLQ VPSSSEKALAITSKAPPAKDGAP
20355	50723	A	20472	438	709	FLSQSWIFKQIRASRTLFLVAFS SNTFTSCRSFCSSEAMGAGSG RSPLEQPRRRNRK PRAEPSNR AQPTPRTS/LRRCSLRPHRPCAR SR
20356	50724	A	20473	2	1315	ILQKRIGFLDALVRNSQPARYI NDYQLSNYGLDMLGPSLDPAP MASEELQKDLEEVKVLEKAT RKTEKSKIEIENKLLQKQSQK KAELL DNEKPAAVVAPITTYGT KGGGGEERGGEAPTSNEAQAT EVRGGAGGGKDKDDGDRER/P RKTRGGRARTE*NNRHEQ*IQI KKRRRETEKERRNEKGRRRHKT ATQKRRREERRARRVGEGRK REQPAHEQEHA TTTHTTRPPA/R RTRKTQTHNRKERKKEE
20357	50725	C	20474	43	162	

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20358	50726	A	20475	2	363	YEPLDSNKRIGTSSSYVLC LCS SLAIFSNFMGNLLSFCGVLK LK SLACIH*RFFN*A**VFIIHSSRE Q*FINVCSSCPAFFNPERRNELY ASLLSFVPSALVPFEDNVSYLF VKSF
20359	50727	A	20476	505	2294	VYSDAKSIYCLLFAHSQRPPCV FNENDPQNSGTVHTVFLVGLTD HRHARAKIESWAGEAAPFTLV AASADKLFGLDHIISKYCGRIAV SVFQFQQYCGLCDSTS/SLQY CGLCGST*HSGSTVASVAGLHI VAVPWPLWQDFTLWQYRGCL/ AQDFTLWQYHGLCGRTSRVAV PWPLWQYFTLWQYCGLCGRIS HC/GQYRGLCGRTSHCGSTVAS VAGLHVWQYCGLCGSTSRC/E QYHGLCGRTS/RLWQYHGLCG RTSYC/EQYRGLCGSTSRCG/MY RGLCGRTSH/WWQYCGLCSTST YCSRTVA/LWQYFIL/CSTSY/W QQYHGLCGNTSYCGIL/QIQY SGLCSSTSYWGSTVASVAVLHI AAVLWPLRQYFILQONRGFCG NTSYCG/SYFILWQYHGLCGST SYCG/SYFILQQYHGLCGSTSYC /EQYRGLCGSTSYC/TQYCGLCG SSSYC/AQNCGFCGNTSYCGST /VLQQYHGLCGSTSYCGRTV/V FCGSTSYWGSTSYCGSTVASLA VLHIVAVLCPL*QYFTTNKTKN KTKPGSCHLTYFGGAAGGPSL* APGGVAGTVGSASRSASWGLP EWICCLRDPKSLSFYPWGFVW
20360	50728	A	20477	2	554	LSSTGGLHAGRLCCSPCLLVIPL KSSQHIFRVLNTNIRLGRRKNS PLPITAHLRVWARRYAHVVL R KADIDLTKRAGELTEDEVER VITH/ILQNPRQYKDPKTGFFEQ DKKDVK/DGKYSQVPSQLVWD NKL P*KTWEPTERRFRAH*/RGL RHFLGAFVRVQQAHEPLGRR GRHRWVCPRRK

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20361	50729	A	20478	50	774	LFGVVYTGFC LGVW TAGVGGV PGPNFPRPILTLVRGP*GKGVG WVAGPGQLRPTGPWSI*VSHPT PPGPLSISYRAQAAGGQGPAP/I THPQGRQEP*RQLPPGGPLA/RH PPKAPDPARPHP/RQHRGPS/ST APKGRCWQHKQEPSGHPACGHT PGRPG/PPQAPPRPSPWVGPGPQ TPTPCP*DEPHRPPGLQPWRPFS PLAMAPMGRLLQALPGLDQRGQ TVSPLRLLGALLES LAWLPSAFIA
20362	50730	C	20479	156	908	
20363	50731	B	20480	1	804	
20364	50732	C	20481	278	551	
20365	50733	A	20482	169	1144	INYSLEKHV GALGRVFLSL*RA GCPGMGSTREGLYLKGHRGS GGIW*ALAGP*KSRGDSVSLTQ GHTHVCSRSR*ADSPG/SHLS PVPHSVEVAGHVLVPATRAAV PCSASAGA*QSTYRTGVHQGNP TV*TK/PSRRPSGGVAK*FLPSA VRGEPGAKPLVDDLLPGWLSLA THGQPPPLVAAPGSLWGRPAD A*GCETAGGSPCPRSTSRPSGPS GVQGCPLG*AGSGASASRSEPP GSTSCCPRAP/T*PAAPCVDPWP AGDQWRSHGYLPPSREL*/G/W MPSPRPATLPQLAFARQRQGNR FDAAFESSGEDFHQMPRVGRM
20366	50734	C	20483	31	90	
20367	50735	B	20484	48	197	

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20368	50736	A	20485	5447	5642	PRDMESCYNPGLDGIIEYDDFK LNSSIVEPKEPAPETADGPYLVI VEQPKQRGFRFRYGCCEGPHGG LPGASSEKGRKTYPTVKICNYE GPAKIEVDLVTHSDPPRAHVAHS LVGKQCSKLGICAVSVGPKNM TAQFNNLGLVHVTKKNMMGT MIQKLQRQLRSRPQGLTEAEQ RELEQEAKELKKVMDLSIVRLR FSAFLRASDGSFSLPLKPVTSQP IHDSKSPGASNLKISRMDKTAG SVRGGDEVYLLCDKVQKDDIE VRFYEDDENGWQAFGDFSPDT VHKQYAIIVFTPPYHKMKIERP VTVFLQLKRRKGGDVSDSKQF TYYPLVEDKEEVQRKRKALP TFSQPFGGGSHMGGGSGGAAG GYGGAGGGSLGFFPSSLAYSP YQSGAGPMRCYPGGGGAQM AATVPSRDSGEEAAEPSAPSRT PQCEPQAPEMLQRAREYNARL FGLAQRSARALLDYGVTDARR ALLAGQRHLTAQDENGDTPL HLAIHQTSVIEQIVYVIHHAQ DLGVVNLTNLHQTPHLHAVIT GQTSVVSFLLRVGADPALLDRH GDSAMHLALRAGAGAPELLRA LLQSGAPAVPQLLHMPDFEGLY PVHLAVRARSPECLDLVDSGA EVEATERQGGRTALHLATEME ELGLVTHLVTKLRANVNARTF AGNTPLHLAAGLGYPTLTRLLL
20369	50737	A	20486	3	346	PQTITDTLWVTLTVEVWDIST/ LFPNG*SHA/TLPSH*NLITLPL NANI/AIPQHAKGLKGPVITRLL QHGLLKPINSYPNSPILPVQKLD KSYRLVQNLRLINKIVSIHPVV PN
20370	50738	A	20487	1	808	YGTSLLLPWLITCPLPSH*NL TLTPLNANI/AIPQHAKGLKPV TRLLQHGLLKPINSYPNSPILPV QKLDKSYRLVQNLRLINKIVSPI HPVVPNPPAFTSQITQAVSQAL GIQWNLHIPYHPQSSGKVERTN GLLKVHLTKLSLQLKKDWTVL LPLALLRIRACPRDATGYSRFEL LYGRTELLGPNLIPDTSPLGDYL PVLQQAQAANLLPTPDQPH EDTLAGRSVLVKNLTPTQTLQPR WTGPHFIYSTPTA VCLQDPPH

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20371	50739	A	20488	2	513	CCPIASEAQ*TITDAELVWTLTV EAQSLLRVFLSYLPTLTHKYGT SLLLWPWQITCPLPSR*NLITLTP LN/GQYPIQPHALKGLKPVITRL LQHGLLPINSPYHSPILPVLKP DKAYKLVQNLRLIYQIVLPIHP VVPNPYTLSSVPPSTTHYSVL DLKHAFFTIPLQP
20372	50740	A	20489	1	1893	
20373	50741	C	20490	1	1806	
20374	50742	A	20491	1	645	MTSGPQINQPKKHLTNFKSEPS DL/FPSSPGCSLPAED*RCPIALE AP*TITQA/RVTLIVEGKSVPLV NTEATQSTLPSFQGPVSLASITV VGIDGQASKPLKTPLLWCQLG QHSFMHSFLVIPTCPVPLLGRDI LTKLSASLTIPGLQPHLIATLLP NPKPPSCLPLLSPHLNPQVWDIS TSLATDIMPITIRLKNHPYPAQ RQYPIQPHALKD
20375	50743	A	20492	113	328	LGSAGWGGGDLWEINPLSSCS LLREKDLLTTS GPQT VTS PRNISP ILNRDPTVQLTWQPLPELELW PKAL
20376	50744	C	20493	183	254	
20377	50745	A	20494	1	511	MWKGPKGLDMYGKSSVSPKTS DILGRDTELLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPEFCQQ FTRAWNRTQVPDETEAPAGTY AAQSGDLWEINPLSSCSLLHE KDPPTASGPQT VTS PRNISPILNR VSEVSDHAGTPALVLHP
20378	50746	A	20495	1	1108	MWSELELPGNIFNGFDQNADN DMDDEIQAEVISDGDEEFVGN WNKPRDLVPCILATLALTRKGQ DTAQTMASEGARPKHWQLPGG VGPVGAQKSRIEVWEPLPIFRR MYGKACMSRQKFAAGAGFSW YVPVAVVGAKVHDVNLHMLS FPSKWKLHTCMKFGAVTQIVTS LGRSSCSLLLEKDPMPVLRPTSP RNISPISNLTKETRFIRGPKTPAP VTDWEGSLPLVFNHCRDASLII HPGFRGVRPRRDACLSPLAN LINLTFKVYNNRKKLQFLAFTV RQTSAMSPAHNKFTPEPQRPG IPPEPPPGACYKC/HEIRPPGQG MPAAQDSS*ATS/LSVRDPTGN WTVQLTWHPLPELELWPKAL

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20379	50747	A	20496	128	302	TAAARHSSRTSSPRSLQVLEI WPSQGMPAAWDSS*AASHL WQPLPEP/LELWPKAL
20380	50748	C	20497	80	106	
20381	50749	A	20498	196	575	
20382	50750	A	20499	1	505	TKETRFIRGPKTPAPVTDWEGS LPLVFNHCRDASLIHPGFRGVR PRRDACLSPLANLINLTFKVY NNRKKLQFLAFTVRQTSAMSP AHKNFQTPEPQRPGIPPEPPPG ACYKC/HEIRPPGQGMPPAAQDS S*ATS/LSVRDPTGNWTVQLTW HPLPEPLELWPKAL
20383	50751	A	20500	372	563	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQT/TSRNPISPLN/PEK KETRFIRGPKTPAPVMD
20384	50752	A	20501	96	505	WS*QP*GLGSHRHHRRHRHSS SSSSSSSSSSKSNSDWQPLPEPL ELWPKAL
20385	50753	A	20502	79	207	
20386	50754	A	20503	583	736	
20387	50755	A	20504	99	246	DLIFHQRHSVSAESLTMHGLNN *QTSAKRVVQGTWQPLPEPLE LWPKAL
20388	50756	A	20505	654	719	
20389	50757	A	20506	71	951	LRSGLDPWEI/NPLSSCSLLREK DPPTSSGPQT/TSRNPISNPR/ PKETRFIRGPKTPAPVTDWEGS LPLVFNHSDRTSLIHPGFRGVR PRRDACLGSPLAASPTFLGKG PAAPRQTELGPNSSSASAPPPYN PFIASPPHTWSGLQFPMSTSPPP PAQQFTLKKVAGAKGIVKDLIN LTFKVYNNRKKLQFLASTVRQ TPATSPAHNQFTPELQQPGVP PEPPPRGACYKFQKSGHRAKEC LQPRIPPKPHPICVGPWKSDCP THLAATPRAPGTLAGGSLTPSQI

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20390	50758	A	20507	1	1010	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSSQQLHPLDPWHE LLRAQELQCATNHHGYSHAEH EHAGLVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWVWFGFAFSDRLKA ALSASLLRFGSDWLPSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKKNGEKRTLL QKRKKGMPHPAYEDLNIAAIT LPANVVLHQPSGFRSTGQLDPV WWSLDTDAHEIWCQDPGLGSG DFFWEITPLSSYSLLHEKDPPTT SGPQTTSRNISPINRQRRQV LSMDPKLRHRSRTGKAAPWC LIAGTPL
20391	50759	A	20508	3	539	IVDDCGGAFTMGVIGGGVFQAI KGRNAPVCRLLSEAPLFIYSCS RSVSPTVNVSSERAESRPTLFM AVSLHMAWCLAHIIRHRLRG SANAVRIRAPQIGGSFAVWGGL FSTIDCGLVRLRGKEDPWNISIT GAILTGA/VLAARSAPLAWVGS AMMGILL/ALIEGVSILL/TR* ATV
20392	50760	A	20509	3	778	GEQRAALPPAPKECTHPNVTNT LVQAESSDAGVRLRWGRGLTA RPDASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVIRHRLRGSANAVRIR APSTTGSFAVWGGLFSTIDCGL VRLRGKEDPWNISITSGA/VLTA VLAAP/SGPLAMGGLQQ*WGG ILSAPHLRAFGILL/TR*TA/QQF RKWAPNSLEDPSQLPPKDVTP APGYPSYQQYHLRKLPLATMGA TSSVPFPDGSGLKGRAGFPF
20393	50761	A	20510	1	231	LRWRVWSLSLLMFCVRSFFLL VGSWSRWRSEAADLGCCEYS S*GSTSGVVRFSRWACGLAGLR SEAADLAPPTSC
20394	50762	A	20511	318	494	

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20395	50763	A	20512	1	1234	MNMNIKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPQQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNAAGR VFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLFYTDYSGSLRSQM PCADLSILKEAAETLDSSTRNS AFLGNTHDEAPIVHVFIPLAYS TNIWSLIFNPTTMMMCSDWL SSCENKRVDLAFGLVYSGTPVQ KLEQMKFSPQLGCNHFESKDR NDFLFAPEEIEKDPQGESLLCDF MTKTPKAMATKAKIDKWDLIK LKSFCATAKETIRVKNQPTWE KNFAIYPYDKGLISRIYKELKQI YEKKIKQPHQKVDERLLNLTT DRLTGEKAYRFIKVQVLRVTQ GMKIQRRARSKELQGDGDEIQR WKRLHSPPLLGEPEHRIIFKLD SANDMHKSAPFSSLSQPLWHQP VMQEVERQYKEKKDLVREGG KCRQCGRPCKVVLTELSLEAR GGWMEDIPSRRTSKCGPWELV SHCVQNWVVLGLTDFKNEAS DPRGVKLQFTTVSVTALKAAR LELLVLPGLLVVSLASGVKLQT FAVSVTAHKRSVDPKTEGAGS GLGQPRKGLSQCSSGPKG*YPE STKNLNKFRKKSNNPIKRLMK
20396	50764	B	20513	1	531	
20397	50765	A	20514	1139	1562	GALQPTAALWEPLSGLAKARA GTLSQLGSVEGVA*AGTGAAC GACGPDGVPGGRGLGGPRTGS SRPALSHFITEEDKDQRVQDQL GGVWHRMEIHEQHVKGQEE GDVEDHIPGEDHEGGGEERHIV PKQLLVLDVDRFLPK
20398	50766	A	20515	1	1597	
20399	50767	A	20516	461	1601	

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20400	50768	A	20517	1	914	MNNLRRAALRAVTLTAKVCSF TPEPARPQTHQKEETPNTEHQ KEQTPDTPPLRTVTLTARVHGF LEVSETKNPPIPDTPATREAEGL RSRLAVYSTRDSPCVACSGSYT QAQSLGRKFQDPVSLFEDLTK NTPEPNLRPITSKPVLVQETLSN FALFLKESNGPVVKVWGSJ/KG LT*KALHGFHVHIEFGDNTAR LYQVQGPHFNPLSQKTTVGP DEESHCH*DLGQCDCLTKNGVA DVSIRFCESHSSGDHCIGRTL VVPWKKPDDFGQRVGNVESSK TGNAGKSVWPCGVNWIAQ
20401	50769	B	20518	8	173	
20402	50770	C	20519	13	180	
20403	50771	A	20520	3	486	VTETWKCAGIPHYRSFESC/IW NPVINSRMDYAGPVCFKNADI GRCAHEKLRED*DGAAPGEIGI QPEADATPYFATPTPVLTHGPC AAESEPALLGSKQFGLSRNSHI AIAFDDTKVKNRLTIELEVRT AEFRLLFYMARINHADFATVQL RNLPLY
20404	50772	A	20521	1	459	
20405	50773	A	20522	2	239	SDSSGSREVDPAATTMPGAA GVLLLLLLSGGLGGVQAQRQ QQRQSAHQQRGLFPVAVNL SNALITTATCGEKGPEMYCKL VEHVPGQPVVRNPQCRICQNSS NPNQRHPITNAIDGKNTWWQS PSIKNGIEYHYVTITLDLQQVFQ IAYVIVKAANSRPGNWILERSL DDVIEYKAWQ*HAAVTDTEAL TP*PN*SPELGHRQNAQD*EVI CTSFYSKIHLENGEIHLISLINGR PSADDPSPELLE
20406	50774	A	20523	2	445	
20407	50775	A	20524	1	2765	MGRRRLLVWLCVAAALLSGA QARGTP/PWRGLR/LPGASRYSL YTTGWRPRLRPGPHKALCAYV VHRNVTCILQEGAESYVKA RQCRWGPCKPGTVTYRTVLRP KYKVGYKTVDLAWRCCPGFT GKRCPEHLTDHGAASQLEPEP QIPSGQLDPGPRPPSYSRAAPSP HGRKGPGFLGERLERLEGDVQ RLAQTYGTLSGLVASHEDPNR MTGGPRAPAVPVGFGVIEGLV GPGDRARGPLTPPLEILS

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20408	50776	A	20525	2	363	RFTKVMEMKEK\MLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELLKEALNMERNNW YQPLQKHAHL
20409	50777	A	20526	1	1566	
20410	50778	A	20527	1	1604	MAILFEMRLGQSSAKFPGFQS SFFPVIPVKNKPSGKFKRDRAHFS STRLLWPDCQISQLWGGYLRK KGSSPSQGLIDKTPSPWKKAPR ERGCGGRSFSRFBKHPCLTALKR AADLPAQHSSAKDTSQKGPTD TSYRRALAGIWQVPPPLGRSFQK KDQAAIFAVVQPLQVPRQTGS GVDLQQTSADWQQRGLTVRR KTNKQKGIACSLKDPIRGHQHQ RPKDNHNSPAREQNWTENEFD KLTEVGFRRRVITNSSELKKHV LTQCKDAKNLRSLEELLTRIPS VEKNINDLMELKNTARELREA YTSFNSPIDQAERISVIEDQFN KINREDKIREKRIKRNKQSLQEI WDYVVKRPNLQLIGVPESDKEN GTKLENTLQNIQENFPNLAREA NIQIQEIQRTPQRYSLRRATPRH IISV/RFTKVMEMKEK\MLKAVRE KGRVTHTHKGKPIRLTTADLSAET LQARRQSGGQYFNIL*RGKIFQP R\ISYPA\KLSFISEGEIKYFIDK\Q MLRDFVTTTRDWPALKEHQAC
20411	50779	A	20528	58	1081	SSMAKPCGVRLSGEARKQVEV FRQNLQFEAE\EFLLR\FLPQKII Y\LNPA SFQEDFPFNVA*/LLNLS SGAPLGHPPIPRPLHPKDDME TDKAGRRKEVP*SVGFFPWGN* GKFLSLVCPGLKPEVWDFSKR NCILGDLHWIQTDPDSRPFEDGN DFGGSQSRKKVLEKG*MPVKT KVIEAFQITISKY/FSSERGDAC GPRPPKETHVMDYRALVHERD EAAYGELRAMVLDLRAFYAEI VKSSGIGAHVSFKVQNIHSSYC SGPTVSPCTVTGLPASQSPDSG AQLASSSGSHTCAAGGAACQS RALRLHSSALGWSMGLGTVEQ GAALIEEVQAAQEPTIEG

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20412	50780	A	20529	1632	1932	KEGCELCRCCCRPGPPASSHGQ PHHVFPF/VLSMASPWA VSPSS VNVSQFFIC/TQDAKTEWLDLDC KHVVFGKVKDGMNIVEVMEHL LGSKNGKISNQQEDHHC
20413	50781	A	20530	245	740	GAWKARSDCSSNP*NYVNRLE LFADKVPKTAEFQALSTGEK GFGYKGLVFRHPIPGF/TCQSGD FTRPYSIGGKSHLPGRNLMTRT FILKHTGPGILSMANAGPSVNV SQFFICPAKMPRTIEW/LDCKHV VFGKVKDGMNIVEVMEHLGSK NGKISNQQEDHHC
20414	50782	A	20531	135	1427	GKPTFASRQQPLAEPCASSAL QRRWLWRRWWLRRRRRQR RSSGSCQGPAGPLGGPPANRG AAPQGSMMANNYNKDEVDGG PPCAPGGTAKTRRPDNTAFKQQ RLPAWQPILTAGTVLPFIIFIGLI FIPIGIGIFVTSNNIREIEIDYTG EPSSPCNKCLSPDVTPCFCTINF TLEKSEFEGNVFMYGSLNFYQ NHRRYVKSRRDSDQLNGDSSAL LNPSKECEPYRRNEDKPIAPCG AIANSMFNDTLEFLIGNDSYPI PIALKKKGIAW/WDKNVKFRN PPGGDNLEERFKGTTKPVNWL KPVYMLDSDPDA*WIHK/DDFI VWMRTAALPTFRKLNRLIQRK SDLHPTLPAGRYSNLVNAAYYP VHYFDARKRMIMSISWMGGK NPFLGMA YFVAGISFHLGV ALGINHKYRNSNTADITI
20415	50783	A	20532	1	370	
20416	50784	A	20533	1	1104	LREFANFDIWRKKYMRWM NHKKSRVMDFFRRIDKDQDGK ITRQEFIDGILSSKFPTSRLEMSA VADIFDRDGDGYIDYYEFVAAAL HPNKDAYKPITDADKIEDEVTR QVAKCKCAKRFQVEQIGDNKY RFGDSQQLRLVRILRSTVMVRV GGGWMALDEFLVKNDFPCRAK GRTNMELREKFIADGASQGM AAFRPRGRSRPSSRGASPNRST SVSSQAAQAA/SPQVPAITTPK GTPIQGSKLRLPGYLSGKGFHS GEDSLITTAAARVRTQFVADS KEGLPSRPGSSLEAKFGSR/AS SRRGSDASDFDISEIQSVCSDVE TVPQTHRPTPRAGSRPSTAKPS KIPTQRKSPASKLDKSSKR

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20417	50785	B	20534	527	4627	
20418	50786	A	20535	37	315	
20419	50787	A	20536	1314	1577	HGSGSAPTCRWPRQTGRCREIC ADGFSGVMRNCTG*EAASGR* CKSFVHVYLQLRCACSVCHSA GSDSFQLQRSPTSTCTHALV
20420	50788	A	20537	1	1652	MQATKTESGRNGKPGQPSNRC HYLLNQGWVANSKGGRRTNIP DKELKSGDDPENVHITSFYLA LAAFPGRGRARDLQAMTEPPHP SVGSCAARASLTSAAPCSTAPSP INHPKAEECGCTARDWQAAPP AARVRDPLGEASWAPSEYVC NCSVVGSLNVNRCNQTGTQCE CRPGYQGLHCETCKEGFYLN TSGLCQPCDCSPHGALSIPCNSS GKQCQKVGVGISICDRQCQDGY YGFSGKNGCLPCQCNRSARCD ALTGACLNCHENSKGNHCEEC KEGFYHSPDATKECLRCPCSAV TSTGSCSIKSSELEPECDQCEDG YISPNCNKCENGYNFDSICRK CQCHGHVYLISTPKICKPESGEC INCLHNTTGFWCENCL*GYVH DLEGNCIKKEVILPTPEGSTILVS NASLTTSTPTPVINSTFTPTTL* TIFSVSTSENSTALADVSWTQF NIHILTVIHGVLLMGFEGAGY MYRENQNRKLNAPFWTIELKE DNISFSSYHDSIPNADVSGLVED DGNEVAPNGQMTLTTPHNYK
20421	50789	A	20538	1	177	
20422	50790	A	20539	1	480	
20423	50791	A	20540	410	896	FSCLKRMHIKAMPEDAKGQDW IALVKAAAAAAKNTGSKPR TSANSNKDKDKDERKWFVKPS KKEETSTCIATPDVEKKEDLPTS SETFGLHVENVPKMVPQPEST LSNKRKNNQGSFQAKRARLN KITGLLASKAVGVDAEKKED YNETAPMLEQV

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20424	50792	A	20541	1	1526	LKDEEDFFDFKAGEEVLARWT DCRYYPKAKIEAINKEGTFTVQF YDGVIRCLKRMHIKAMPEDAK GQVKSQHPLSWCCPIDPAGSCN QSMGSEDWIALVKAASAAAAA KNKTGSKPRTSANSNKDKDKD ERKWKVPSPKKEETFNLLATP DVE/RRKEDLPTSS/EKHL*GLH VRRNVPKMVFPQPESTLSNKRK NNQGNV/FQAKRARLNKITGLL ASKAVGVGDAEKKEDYNETA PMLEQAISPKPQSQKKNEADIS SSANTQKPALLSSTLSSGKARS KKCKHESGDSSGCIKPPKSPLSP ELIQVEDLTLVSLSSSVINKTS PPQPVNPPRP/KH/SERRRRSQR LGTLPMPDDSVKVVSSPLSSPL D/EGKVFS/LSSSSKISQESS/PE VPDVA/HICPLEKLGPCLP/LDLS RGSEVTAPVAS/DSYRNECPRA EKEDTQMLPNPSSKAIDGRGA PAAAGISKTEKKVKLEDKS/STA FGIRSWDFSALLMKIPSYSPISLS GLPES
20425	50793	A	20542	363	1187	FHITMCGICCSVNFSAEHFSQDL KEDLLYNLKQRGPNSSKQLLKS DVNYQCLFSAHVLHLRGVLT QPVEDERGYNVFLWNGEIFSGIK VEAEENDTQILFNYSLSCKNES EILSLFSEVQGPWAFIYYQASS HYLWFGRRDFGRRSLLWHFSN LGKSFCLSSVGHPIWNWQISG KKFQHLDDFRIDLKSTVISRCIIL QLYPWKYISRENIIEENVNSLSQ ISADLPAPVSVGSQMEGQTVSL EKPVPVPLNMDVATSWHWETH AVFFPCATYR

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20426	50794	A	20543	1140	2372	CCHKLHWRLIAVIFPMCHLQER YFKSFLMYT*KEVIQQFIDVLS VAVKKRVLCPLRDENLDSQME VLENV**GKANVGNPFWGGGL D/CPWLLATLLDRHIIPLDEPLVL LNVAFIAEETMPTTFNREGNK QKNKCEIPYPKNFSKDVA ADSPNKTCCQPDRIITGRAGLK ELQAVSPSRIWNFVEINVSME LQKLRRTTRICHLIRPLDTVLDD IGCAVWFASRGIGWLVAQEGV KSYQSNKVVLTGIGCRWSNL QGYSPSSVSFAKSHGLGRIGKE IMMELGRISSLEILGRDDRIVIG DHGKEARFPFLG*/RMLSPFLNS SARFGEKANLDFTPRGIGEKL PFNALQPVELGLTASALLPKRAM QFGSRIAKMEKINEKASDKCG RLQIMSLNLSIEKGTKL
20427	50795	B	20544	70	464	
20428	50796	A	20545	18	552	
20429	50797	A	20546	1	1257	
20430	50798	B	20547	223	342	
20431	50799	A	20548	9	5293	KIHRHRLSPATEKGAASSGEGD KDPPPPAHEDIAVKGTATAAGT GPGTGAAAAAATAVPPHPNI RALQTQAQQIIPRGVPVQPLED RIFTPAVSAYSTVTQVARQPG TPTSPYSAHEINKGHPNLAATP PGHASSPGLSQTPYPSGQNAGP TTLVYPQTPQTMNSQPQTRSPF FPKGLKIOPPRATIPNSKSPFV PGAQTPAVYQG*FRHIMM/V NHLPLPYVPVQGPQYCIQYRH SGPPYVGPQQ
20432	50800	A	20549	1	78	
20433	50801	A	20550	1	2805	MAKGFYISKSLGILGILLGVA VCTIIALSVVYSQEKNNKNANS PVASTTPSASATTPASATTL QSKAWNRYRLPNTLKPDSYRV TLRPYLTPNDRGLYVFKGSSTV RFTCKEATDVIIHSSKLNLYTL QGHRRVLR/PPDIDKTELVEPTE YLVVHLKGSVLKDSQYEMDSE FEGELADDLAGFYRSEYMEGN VRKVVAATTQMQAADARKSFP CDEPAMKAENITLIHPKDLTAL SNMLPKGPSTPLP
20434	50802	A	20551	1	239	
20435	50803	A	20552	1	654	

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20436	50804	A	20553	161	3193	GSLSLRLPTITMAKGFYISKSLGI LGILLGVAAVCTIIALSVVYSQE KNKNANSSPVASTTPSASATTN PASATTLDDQSKAWNRYRLPNT LKPDYSYQVTLRPYLTPNDRGLY VFKGSSTVRFTCKEATDVIIIHS KKLNFPLSQGHRVVLRGVGGS QPPDIDKTELVEPTEYLVVHLK GSLVKDSQYEMDSEFEGELAD DLAGFYRSEYMEGNVRKV VAT TQMQAADARKSFPCFDEPAMK ARFNITLIPPQGT
20437	50805	A	20554	3	429	
20438	50806	A	20555	3568	4012	VLSTSPFGTELNPPISPLAVNSTE LLKGELSLSSLGVLSLSDTSVPN SVSNSFLGLRKRLLGRGVGISC NALSALDLAACNFSLMRPLME NSAKPVLEVEGIGG/TAFDAGA GIALSDHFILKISWYDNEFGYSN RVVDLMAHMASKE
20439	50807	A	20556	1	1211	QTAASSFASPGEPHRSNTMGKV KALVNGFDRIGRLVTRAAFNNG KGDIVAINDPFIDLNYMVVMFQ YDSTHGKFGHTVKAENGKLV NGNPITIFQERDPSKIKWG*H/G AEYVVESTGVFTTM/EKAGAH FAGGSQKGHSSFAPSTEAIMFM MKVNYEKYDNLKIIISNASCTT NCLAPLAKVIHDNSGIVERLMI TVHVITTTQKTVDDGPCRKL RPD GHRALQNIIPASTSTAKAMVKV IPELNKLTGMA SHVPTAKVLV VDPTCH/LGKPAKYVDIKMM KQASEDPIKGILGYTEHQVSSD FNSDTQSSTFDAGAGITLNDHF VKLISWYDNEFGYSNSVVDLM AHVASKELSGYSLKV SFVQK LFLSIRSNLSIAFDAIVGFVFM KSLPVSICRM
20440	50808	A	20557	1	300	PTANVSVDLTCRL*PKAPYD DIKKVV KQASEGPKLGILGYTE HQVVSDDFNSDTHSSTFDAGAG IALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
20441	50809	A	20558	1	3399	
20442	50810	A	20559	1	3126	
20443	50811	C	20560	298	435	
20444	50812	A	20561	1	888	
20445	50813	B	20562	1	4536	

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20446	50814	A	20563	37	3900	LGLGLSMLVGQAGPLGPAVV TAAVVLLLSGVGPAHGSEDIVV GCGGFVKSDVEINYSLEIKLYT KHGTLKYQTDCAPNNGYFMIP LYDKGDFILKIEPPLGWSFEPTT VELHVDGVSIDICTKGGDINFVF TGFSVNGKVLSKGGPLGPAGV QVSLRNTGTEAKIQATATQAPG GKFAFFKVLPGDYEILATHPTW ALKEASTTVSVTNSNANAASPL IVAGYNVSGSVRSDEGPMKGV KFLFSSLVTKEDVA
20447	50815	A	20564	1	310	EEETVPTTAGASPGPPRNKKNR ELRPQRPKNAYILKKSRIKKPQ VPKKPREWKNEPSAAAS*GGE GQAHHGPAICPGQICALSQTPG LPGNSLSPRPVGK
20448	50816	A	20565	3	267	
20449	50817	B	20566	267	560	
20450	50818	A	20567	1	429	LIGLDPEPLAEVDVISLEQGRRK QIERLGYDPQAKAPFQPKPKQK GRSSTASLVKRRKRVMDIEENR VK*TIGNGGLPKGCTLPACAL CPCQPAHFLTLCVSLSPVPQD KVRQSLQQQHHKEAK/APKPTG ARPSALDRFVR

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20451	50819	A	20568	2	1951	FKPTVWQLRGVLHVDRLFVWA SMETAPKPGKDVLSKKDKLQT KRKKPRRYWEEETVPTTAGAS PGPPRNKKNREL RPQRPKNAYI LKKSRSISKPKQVPKPREWKNP ESQRGLSGAQDPFPGPAPVPVE VVQKFCRIDKSRKLPHSKAKTR SRLEVAEAEETSIQSLRSEL LLAEEP GFLEGEDGDTAKICQ ADIVEAVDIASAAKHFDNLNRQ FGPYRLNYSRTGRHLAFGGRRG HVAALDWVTKKLMCEINVME AVRDIRFLHSEALLAVAQNRW LHIYDNQGIELHCIRRCDRVTRL EFLPFHLLDASETGFLTYLDV SVGKIVAALNARAGRLDVMSQ NPYNVAIHHHSNGTASLWESS YGREPLAKVLCVHRLGSGAVA VDSYRHVTWATSGP*DHQLED LDFFARGRYQPLEHSGPCPMG AGHLAFSQRELLVLAGLGDVV NIWAGQGKASPPSLDRPYFTF RVV*GPVHGLQCFPEDVLGVG HT*GUTSMLVPGAGEPNFDGL ESNPYRSRKQRQIEWEVKALL EKVPAELICLDPRALAEVDVISL ETGKRKKQIERLGYDPOAKAP FQPKPKQKG RSSKATLVKRK RKVMIEDHKG/DKVRQSLQQQ HHKEAKAKPTGARPSALDRF
20452	50820	A	20569	1	437	
20453	50821	A	20570	157	425	

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20454	50822	A	20571	207	1562	LVIVFFYPQHTAPGPPLTVLNQ AMHARGPHGQLSPALPLASSVL MLLMNLAHLQGPWMLGPLTW HISPFSLPVHRLTHALGHTALP GILLLLLLPTVGWQQECHLGT LRLFLHASALLALASGLLAVLLA GLGLSSAAGSCGYMPVHLAML AGEGHRPRRPRGALPPWLSPW LLALUTPLLSSEPPFLQLLGLL AGLACILCLSPGPVGMCGFCG WVPGKEVAQRGEGPSNTKEPC THIAWVVAWAHPWLLLVLDR PPCPGQTDAAGAFRWLEPSERR LQVLQEGVLCRTLACGMPVQ VVGTVAGLPVRPSSLP/SSSRPPI PGPPYVASPDLSHWEDSALPP PSLRPVQPTWEGSSEAGLDWA GASFSPGTPMWAALDEQMLQE GIQASEVSGPIGAGVALTLPTS PPTPNRLQLERMGFTEQAVV ALAATGRVEGAVSLLVGGQ
20455	50823	A	20572	460	916	AHSRDPDHPWTVLNQAMHARGP VHGQLSPALPLASSVLMMLMST LWLVGAGPGLVLAPELLDPW QVHRLTHALGHTALPGALLS LLLLPTVGWQQECHLGTLRFLH ASALLALASGLLAVLLAGLGLS SAAGSCGYMPVHLAMLAGEG HRPRRPRGALPPWLSPWLLAL TPLLSSEPPFLQLLGLLAGLAY AAGAFRWLEPSERRLQVLQEG VLCRTLACGWPLRLLATPGSLA ELPVTHPAGVRPPPGPPYVASP DLWSHWEDSALPPPSLRPVQPT WEGSSEAGLDWAGASFSPGTP MWAALDEQMLQEGIA/SL/D GPAQEPQSAPWLS/KSSVS/*MR LQQLERMGFPTTEAAVVALA/ ATGRVEGAVSLLVGGQSGTNET LVTHGKGGAHSEGP/GPPWAN CPQHCLLASSVLMMLMSTLWL VGAGPGLVLAPELLDPWQVH RLTHALGHTALPLAPEPAAP AHCGLAAGVPPGHAIEIPACLSP ARPGFWAAGSAAGRPWAVQCS RQLWIHACPPGHAGWGRTTP
20456	50824	A	20573	174	401	CTVVSFVLAELSCTSRFCPNMW TPLREPMTENGRWGLSVRVLE HGGNQSNSACGPEPPEGEMGS* LEED*LPALIP

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20457	50825	A	20574	450	1029	ATQLPPQPWQTPAALGWAAAT SLMPYRAPSPPARAQHPALCL APPPPLWLQPLHLEASHSLVEA RPNPPVSTLAQQGIQSPRHLPR CPSLRPRQQPPQQVP/PQPAAPT PTATITSTGPSLFASIATAPTSSA TTGLSLCTPVTTAGAPTAGTQG FSLKAPGAA/PAPPQHPPLPPP PPPPPPAAAPPALP
20458	50826	C	20575	115	276	
20459	50827	A	20576	3	307	ASRLPGREGGARKNPGGCSAT QYISVSP/GAASFPVLGSQSLLT TVSPPLPA*/P/LAMAL*PRPLCA PGSPSRSPRLRSPLPSFFSRGRR RLSLIQPWSE
20460	50828	A	20577	2	388	
20461	50829	C	20578	244	487	
20462	50830	B	20579	5	569	
20463	50831	A	20580	204	676	RTDQYPORGETEEGLEQLLPH RQLPGGLGAHRGPDACGLRD SSRGVPLAGSPLRV*/GRGHDL RQSGGVPRPGGGSNRGLVVAGD ARGRAAPLAGGVPAADRSRL PGVPAAREPHGPTAPDPDSAA EPGAVSTLRAEPTQPVVSTGC CSSTWN
20464	50832	B	20581	1	1413	
20465	50833	B	20582	60	224	
20466	50834	B	20583	8	2469	
20467	50835	A	20584	841	1436	HHQVPLPVGRERGGKRGPGSW ETCLSVLGAIPPSEWPVSPSW VHSLVPGEQALPLICSQPPMAP QWPETGPGPHLVHRTCRVCLN WQGMTRTRGYQAGPSSRRTIPT PAQLPAPLASLPPRQDPSPSPAE PPSGRFSMEPW/EPARHPGSP AAPCSSHRIT/APPTPSLAAQPG/ PVGSNPPLSPEGLCLAGTPACG W
20468	50836	A	20585	1799	5195	SKGNPSPTTQTPTPRAAPDGS LSEETPAGPTCSVPPASALPRQ QYAKSLPVSPVPWGFKEKRTE ARSSDEENGPKPKPASVDANTK LTRSLPCQGSLLKRAATSCERAGK AVGEEVSGYSLHGCSKERRRRP RLKKEGSGEPGVGYLFISVLV NSNSELIRLINNAIKNDLASRNP TFMCLALHCIAVGSREMGAE FAADIPRILVAGDSMDSVKQSA ALCLRLLYKASPDVPMGEWT ARVVHLNDQHMVG

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20469	50837	A	20586	8	268	SRSSRTWSPPEKEKTKLQKQR EDELIQKIHLVQKRDFLVDDA EVERLREQEEDKEMADFLRIKL KPLDKVTKSPPI*QSQRAHL
20470	50838	C	20587	50	196	
20471	50839	A	20588	16	1263	SLSSRCMMVAEQGCALEPCQG LSHGAALGVLVVFP/VSSLQQ DQLDIISMAETT/MMP/EEIELE MAKIQRLEVLVRRESELRFMS FEEQYNEDHKKGVIDLFTADSL KTMTRLVTVGVWLAATASN PLQEGEHAGEQIGAGGCRSL GGALTWDPVLLPPVRISRMLLL LLIPGELPGIAFKLMNPTKAEP HMFIILEPFDLRKLMDDIQLCK DIMDLKQELQNLVAIPGCTRS MLVSAQLEGLRKLIIAEDKG ADMSRAQSRSKRPPKMLICLLV DVFFPEKEKTKLQKQREG*AN PRRFHKLQKRDFLVDDAEVE RLRIEQE/EDKEMADFLRIK/LKP LDKVTKSPASSRAEKKAEPPPS KPTVAKTGLALIKDCCGATQC NIHVSPHVGCGPGWGPPTLLS
20472	50840	A	20589	31	339	
20473	50841	A	20590	1	1179	
20474	50842	A	20591	1	1167	PARSMAATSLMSALAAARLLQP AHSCSLRLRPFHLAAV/RGNLSL GQVGVQCCNHGLLP*PPGLK* SSHLSLNEAVVISGRKLAQQIK QEVREQEVEVWASGNKRPHLS VILVGENPASHSVVLNKTAAAA VVGINSETIMKPAISIEEELLNL INKLNNDDNVGDLVQLPLPE HIDERRICNAVSPDKVDVGFHV INVGRMCLDQYSMLPATPWGV WEIKRTGIPTLGKNVVVAGRS KNVGMPIAMLLHTDGAHERPG GDATVTISHRYTPKEQLKKHTI LADIVISAAGIPNLITADMIKEG AAVIDVGINRVHDPVTAG/PGL VGNVDFEGVRQKAGYITVPVG GVGPMTVAMLMKNTIIAAKKG AEA*RSEKVLKSKELGVATN

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20475	50843	A	20592	1	1963	MAASDVNCGACFAELQGNATA NTPGGTSHHTHLAIHGSCHDSQ AKEAGRKRPWPPDGRSEPAP DHPHLSPEALGVFRRALSALK EAPETGEERDLMVHNIMKEVE TQALALSTNRTGSEMLQELLGF SPLKPLCRVWAALRSNLRTVAC HRCGVHVLQSALLQLPRLGSA AEEEEEEEDGKDGPTELEEL VLGLAAEVCDDFLVYCGDTHG SFVVRTLLQVLGGTILESERARP RGSQSSEAQKTPAQECKPADFE VPETFLNRLQDLSSFLKDIADV ITDKISSFLQVALQVLRHKLKLA QFCAHICNAVIGYLSARGSSVD GKPLLLFLRDQTSFRLLQVLL VLEPPRLQSLFEEHLQGGLQTL AAHPIANFPLQRLLDVTTPEL LSPVFEELSPVLEAVLAQGHG VVIALVGACRRVGAYQAKVLQ LLLEAFHCAEPSSRQVACVPLF ATLMAYEVYYGLTEEEGAVPA EHQVAMAAARALGDVTVLGS LLQHLLHFSTPGLVLRSLGALT GPQLLSLAQSPAGSHVLDAILTS PSVTIPSCAAVCLQNLKGTNIVA LACKSP*QPRVLKCHLEWSSLE GP/RRKIAAELGEQNQLAKEPP FGHHVARNVALTTFLKRREAW EQQQA VAKRRRALNSILED
20476	50844	A	20593	55	393	
20477	50845	A	20594	150	379	

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20478	50846	A	20595	1	2408	MGVWGIRTPFMVVGLESVPVGS SPRGQGSCVRLPQRRDPKSHAG ARTGPETLRERAQQSNKLPEW AEKGSHPARWSPNRGGRWTLF TARERRPSRALKARAAGRQA KVADFRLPAAAPPEGAAQLRL SERLPHQDEKEPSSYRGSCGSCP VTLRKMPYLGSEDVVKELKKA LCNPHIQADRLRYRNVIRVIR YMTQGLDMSGVFMEMVKASA TVDIVQKKLVLYMCTYAPLK PDLALLAINTLCKDCSDPNPMV RGLALRSMCSLRMSKLDQWQG AEVLNFFLLRYQPRSEELFDILN LLDSFLKSSSPGVVMGATKFLFI LAKMFPHVQTDVLRVKGPLL AACSSSESLCFVALCHVRQIL HSLPGHFSSHYKKFCSYSEPH YIKLQKVEVLCELVDENVQQ VLEELRGYCTDVSADFAQAIF AIGGIARTYTDQCVQILTELLGL RQEHIITVVVQTRFDLVWLCPO CTEAVCQALPGCEENIQDSEK QALIWLGVHGERIPNAPYVLE DFVENVKSETPAVKMELLTAL LRLFLSRPAECQDMLGRLLYYC IEEEKDMAVRDRGLFYRLLLV GIDEVKRILCSPKSDPTLGLLED PAERPVNWSWDFNTLVPVYG KAHWATISKQGAERCDPKLP KTSSFAASGPLIPEENKERVQEL PDSGALMLVPNRQLTADYFEK
20479	50847	B	20596	330	2458	
20480	50848	A	20597	2	171	
20481	50849	A	20598	32	1040	LQLAKLGDWRMQALRHVHCR FTEG*FMYSL*LTFFPAGYQVT GVFMKNWDSLDEHGVCTAD KIDCEDAIYRVCQILDIPFHHQV SYGTEVIFFYSSDFLNEYEGRT PNPDIVCNKHIFKSS*SLCSKNL TGADAIATGHYARTSLEDEEVF EQKHVKKPEGPASWRNCLSVG WFLYTLGQRANIGGLREPWYV VEASPPSHILQAPRTDHPALYR DLLRTSRVHVIAEPPAALVRD KMMCEPPRAPLFYYPVCVLTL NQDGTVVWTVATVPDARVSPQL FAVYKGDDECLSGSKILRLGPS AYTLQKGQRAGMATESPSPDS PEDGPMGLSPLL
20482	50850	A	20599	12	432	

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20483	50851	A	20600	2	509	RLHSLUGDYYQAIVKLVLENIDLS TKSMYSRVPECQVTTYVVYVGF AYSMRCYQDAIRVFASILLYI HRTNSMFQRTKYKYEIMILN EQMHALLAIALTMYPMRIDESI YLHLREKYVDKMLRMQNGDL QVYEELFRYSCTKFL*PVPNNY DTVHAHYHTESFLQSLRR
20484	50852	B	20601	8	1188	
20485	50853	A	20602	1	257	
20486	50854	B	20603	210	312	
20487	50855	C	20604	49	288	
20488	50856	A	20605	13	446	IPVRPTRPADDYESEAAYDPYA YPSDYDMHTGDPKQDLAYERQ YEQQTQYQVIPEVIKNFIQYFHK VSDLIDQKVYELQASRVSSDVI DQKVVEIQDIYENDAVFLILYK ELYRHIYAKVSFQSFQSRCK TAKKSEEEIDFL
20489	50857	B	20606	77	611	
20490	50858	A	20607	1	1956	SLVDPRVPRVRLSEAAAMS YPADDDYESEAAYDPYA\YPSD YDMHTGDPKQDLAYERQYEQ \QTYQVIPEVIKNFIQYFHKTVS DLIDQKVDELQASPCQLVIVID QERLYEDSRTIY*EQA\WTKL\TE RFFKNTWPWGGWKPLVPQGLA MDA\VSFLDFYPKNYTYRHIYA KVSGGPSL\EQRFESYNYCNL FNYILNADGSRSPNYPNQWL WGYLSMEFIYPVFSHF\SQYRW *DLPKKSEEEIDFLRSNPKIW\N VHSLNLV\HSLVDKSNINRQL GGYTQAGGDP*ECGWGSMGR HSLYMMMLHYFSLVR/GFSRLHS LLGADYYQAIVLENIELNKKKS MYSRVPRVPRSPITYY\YVGFAY LMRRY\QDAIRVFANILLYIQ RTKSMFQRTVYKYEM\NKQIE QMHALLAIALTMYPMRIDESI HLQLREKY\DK\MLRMQK\GD PQVYE*LF\SYSCP\FLAA\VP TYDNVHPNHYHKEP\FLQ\QLKG VFLDEVQ\QQGPAFKPIRSFLK\A YTTALLAKPGLASLDPHRGRE FRDPRFLCLSNHQQ*RNLLVLP AGISSPWIGESVSPQRVDLPTL NKDMIPHRTGTPKVPQAVMGDF LHPVRSRKFGGA*SEPLKEGWG QRPWMIFTTHFREPVDVHQQG
20491	50859	A	20608	2	413	

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20492	50860	A	20609	232	621	
20493	50861	A	20610	1	3590	MAPRKRGGRGISFIFCCFRNND HPEITYRLRNDSNFALQTMPEA LPMPVVEELVDFSELVDEL TDKHFREAMFALPAEKKWQIYC SKKKDQEENKGAATSWPEFYID QLNSMAAGILEGVFVHIVITHC LQNNQQLLHDKQGNRHFCCL RSHQHPMLPACSNVHLSFDRK TLCKDALCPLPASHVSRYLKRS LLALEKEEEEERSKTIESLKTAL RTKPMRFVTRFIDLGLSCILNF LKTMDYETSESRIH
20494	50862	A	20611	203	3480	SHQIEQNSAMAPRKRGGRGI AFIFCCLRNNDHPEITYRLRNDS NFALQTMPEALPMPVVEELDV MFSELVDELADLPDKHREAMFA LPAEKKWQIYCSKKKDQEENK GATSWPEFYIDQLNSMAARKSL LALEKEEEEERSKTIESLKTALR TKPMRFVTRFIDLGLSCILNFL KTMMDYETSESRIHTSLIGCIKAL MNNSQGRAHVLHSESINVIAQ SLSTENIKTKVAVLEILGAVCLV PGGHKKVLQA
20495	50863	A	20612	1	338	PGGALRVPDAPAGAEGQELCR SDFPVGGAGVGDEEGVQCPAP AAHRDDTDLRGAH*EVQDAAG RRKQPDREQPAEAGEGAPHLPE RVPPG*RHGTCTDRGQARACG GPLAPE
20496	50864	B	20613	610	6429	
20497	50865	B	20614	28	280	

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20498	50866	A	20615	160	1397	VKMSAQESCLRLIKDFLFVNL FFFALGSLIFCFGIWILDKTSFL SFVGL/AAFVPLQIW\SKVLAIS GNLSPWGIALGLCWGALK\EL RCLLGVLVFGMLLLFATQITLE KSSSSNQRIAQLESLR\DIVVGK TIQKYGINPEETAPEENWDYV QSNLRWCGWHYGRDWFVIFIL RGNSEAH\RVTRS*YNFMAT* NSTILNKVIVHQLTRLEHLARSR HSAD\ICAVPAESHITRK\GCAQ GIQK\WLHNTLIF*WAICLGVG LLELGFMTLSNIPVEETVDHGL PTGSARYRLGPAPQSRAPPPVS VRWALPVLPNICLIPRLAVEPS GVHISPGDTTWLRAPAAVTSPT GPGAFVHSFLSPSVGLPPPTRLF FTQTSNKPAPFLVNDHKKGGRS KKALEGPNVTRA
20499	50867	A	20616	290	492	
20500	50868	A	20617	1164	2134	NNYNHHHHHHHHHDYYNHH/ HHYHHHHHHHHNNYHHHHHDH HHNYKHHHHHHYQHNNYNNH HHHHHHSYNHHHHHHHHHHN YNHYHHHHHHHHHHHREYHH HH/HHHHHYHHHHHHNNYHH HYHHHHHHQYHHNNHHHHHHH YNHHYHHNQYHHYHHHHHD YYHHH/HYHHNNYYLYNRYH HYHHYHQSNNHYRHHHHHHQY HHN/HEPFA/HHT*ILFCS*KQDR NLHCAWPPFFFFNCHHHCHH HHQQQQHSGVKTKQSRPESLLP ERCYLVHQKHPLHRPGAPQHQ KTASWRGQAREAAGSSPSGLSS HTADHEVEAFKRCFYSRF
20501	50869	B	20618	164	1526	
20502	50870	A	20619	1	762	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
20503	50871	A	20620	69	1054	AISCHVVHAGHQQTQITGNDPF PVVITYSKGPNLQSSRSDMDDST EREQSRLTCLKKREEMKLKEC VSILPRKESPSVRSYKDGKLLA ATLLALHACCLTEVSFYQVAA LQGDALSLRAELQGHHAELP AGAGAPKAGLGGSSCSPRDLK IF*TTSSREKAI/PGSEQQK*GVP FQGPEETVTQDCLQIADSETPT IQKGSYTFVPWLLSFKRGSAL EKENKILVKETGYFFIYQGVLY TDKTYAMGHLIQKKKVHVFG DELSLVTLFRICIQNPETLPNN SCYSAGIAKLEEGDELQLAIPRE NAQISLDGDTVFFGALKLL
20504	50872	A	20621	3	855	LQNSHGHTMIRTLTLLSTLVAGA LSCGDPTYPPYVTRVVGGEAR PNSWPWQVSLQYSSNGKWHYHT CGGLSIANSWVLTAAHCISSSR TYRVGLGRHNLVVAESGSLA/ MSSVSKIVVHKD/WNFNQISKG/ NDIALLLKANPVSLTDKIQ/LA/ CFPPAGTILPNNY/PC*VTGLGE SCRNTG/AVPDVL/QQGRLLAV DYATCS/SSA/WVGSSVKTSMIC A/GGDGVISSCNGDSGGPLNCQ A/SDALWQVHGIVSFGSRLGCN YYHKPSVFTRVSNYIDWINSVI AYN
20505	50873	A	20622	19	414	SVCWEDRYLKARMEESPLSRA PSRGGVNFNLVARTYIPNTKVE CHYTLPPGTMPASDWIGIFKP/ GYLPKPGAQLYQFRYVNRQGG VCGQSPFQFREPRPMDDELVT EEADGGS DILLVVPKATVLQNG
20506	50874	A	20623	1	393	AKSWQEEQSAQAQRLKDKVA QMKDTLGAQAQQRV VSEAPWQ QETGNSKGKL*RSRLV*REGER HG*RLNNTTPSPNAVEWRER/IT SLADE*FTRNCDLHLLSPEAEL EPLKEQLRGAQELAASSQQA TLY
20507	50875	A	20624	56	416	NRPLALVASDTQPLHTHTHTH TPLSDAPKPIGA/HLP/CSYLEF PLTSVPHPSLFHNLRYSVWRGF LYF*GFLYSVSSPRISHGKK*CI CAFCEEWGEQVVP/PIKAPLP LQVPPQQ
20508	50876	A	20625	115	392	
20509	50877	B	20626	1	3388	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
20510	50878	A	20627	3	1889	SSPREKTS DSSHRPSRHGFLFLR LVGLSPF SYLCVPPSRPVPGSPR SLSAMRLLPLAPGRLRRGSPRH LPSCSPALLLLVLGGCLGVFGV AAGTRPNVLLTDDQDEVL GGMTPLKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGTKYPH NHHVVNNTLEGNCSSKSWQKI QEPNTFPAILRSMCGYQTFFCR GNI*MKYGAPDAGGLGHVPL GLGVTWYALEKNSKYNYTL FYSMGKARKHGENYSDVLT DVLANVSLDFLDYKSNF*PFF MMIATPAPHSPWTAAPQYQKA FQNVFAPRNKNFNIHGTNKH LIRQAKTPMTNSSIQFLDNAFR KRWQTLTLLSVDDLVEKLVKRLE FTGELNNTYIFYTSDNGYHTGQ FSLPIDKRQLYEFDIKVPLLVRG PGIKPNQTSKMLVANIDLGPIL DIAGYDLNKTQMDGMSLLPILR GASNLTWRSDDLVEYQGEGRN VTDPTCPSLPGVSCFPDVCVE DAYNNTYACVRTMSALWNLQ YCEFDQEVFVEVYNLTADPD QITNIAKTFDPELLGKMNYRL MMLQSCSGPTCRTPGVDPGY RFDPLRMF'SNRGSVTRRRFSQT SSCSDPHTASADGSLHALFLMK
20511	50879	A	20628	132	253	
20512	50880	A	20629	1	1269	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20513	50881	A	20630	1	1920	MDEAEFSSFVVRTNTCGELRSS HLGQEVTLGWIQYRRQNTFL VLRDFDGLVQVIIPQDEVINFL LLSKSFFDAIAGSAASVKKILCE APVESVVQVSGTVISRPAQOEN PKMPTGEIEIKVKTAE LLNACK KLPEIKNFVKKTEALRLQYRY LDLRSFQMQYNLRLRSQMVMK MREYLCNLHGFDIETPTLFR TPGGAKEFLVPSREP GKFSYSLP QSPQQFKQLLMVGGLD RYFQV ARCYRDEGSRPDRQPEFTQIDIE MSFVDQTGIOSLIEGLLQYSWP NDKDPVVVPFTMTFAEVRPP YGTDKPDTRFGMKIIDSDFR NTEIGFLQDALSKPHGT VKAICI PEGAKYLKRKDIGSIRNFAADH FNQELPVFLNANRNWNSPVAN FIMESQRL ELRLMETQEEDVV LLTAGEHNKACSLGKLR TGN VAGPSRKQEGVVL RDP TLFSL WVVDPLFPQGRKKIQESWDR GQHPFTAPHPR*ITLLYTEPKK ARSQHYDLVLNGNEIGGSGSRI HNAELQRYILATLLKEDVKMLS HLLQALDYGA\PPHG GIALGLD RLICLV TGSPSIRDVIAFPKSRFG HDLMSNTPDVSVP*GTEALSYP SLQANRLQSRKSSLNHAYHAES
20514	50882	A	20631	1	425	KEPVGCNNNISFLASLAGSTSR NRLQSTRGAGRLQNSGTGLSTN LQHFQEEENFRKSSPQLEHT/WSF FGECTTHHLPVKAPLQTKKKT TNHCF LCGKKTGLASSYECRQ VGELEKLRCLCDNP AWGLCKI KYNLCLFITSL
20515	50883	A	20632	1	1647	
20516	50884	A	20633	1	3096	
20517	50885	A	20634	1	419	
20518	50886	A	20635	558	1070	SFRFGHSHGLWKRKKVA*GSN AIQHNMLQKGQNFGAALWY KGNSTQSKRPQRA P*ESSTTKR GLQLSRQTLQLDPGGTVPCSEE YCICQ*EGPASRNRYNGVPSHF PSPTCIRESSHS GKILKSRLRCW GWPTDPWSVLPMDPRTSPLCA AGSQAVVAHSGRQQKYPAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
20519	50887	A	20636	3887	4573	KKTTLLTLTKTRNINPFKVVVK KKAYGSRKHLRQ/HLAINPAAL LPTAASQISEVKPVLPELAFPSS EHRRSHGLESVPVLPQSSEAGV SFDLPAQADTLHSANKSRVKM RGKRRPQTRAARLLAAQESSEA EDMRSPEDPLHSGLMAPFPQM AIGHSSEQPVKETA LRPPWQLP LHLGKVVLCLEWTQAPLQSLW VIPEGRLTFLIGTFFPRALDLSP WREQNPRQR
20520	50888	A	20637	1	2988	MATAPSPMMLTLAPAWLCPAT TTPRDHSEASLEALPGDPPAHP AAAAATAAAVIPALEPHTPVYA IFVNHSLLDLYIDRPLPYLIGSK LFMEQEDVGLGELSSEEGNADE QSSGLEGACKVNLLELLLTNAD KGLKAPEQHLKHVAGVNLGES VETSVLNYRELSPHKNRLLSPL RCSAPMSLHNSLVKPERQSKCF EFGKLPSSSSQSLDVQNTDSSF SRTTCFQGVKVDLSLGRKSDVIS KVEARDITEMTNKA
20521	50889	A	20638	1	1176	
20522	50890	A	20639	2	367	
20523	50891	A	20640	124	441	RYPRVPENRCFSELLFFQAPLG VGMARGNQRIELARQKNLKET QELSRGKGKEDSLTALSRKQD S*IIAKKQKAA\NEKKS\MQTRE NVMGTGYLENPGATAQLGVS
20524	50892	A	20641	32	232	
20525	50893	A	20642	1	256	
20526	50894	C	20643	133	509	
20527	50895	A	20644	88	685	QKRGRLFKIILKVVLVLMKVVI HRKMFQRAQELRWRAEDYHK CKAFSDHPLCKKASLQLQGNG GSGASSFFRIALLALPHS*NFKK QDGPPTSSNSTTFYN**LPEPQ DTSRMSSYSLSTLSSSTLRG**S QDSSLSSYSGRGRKITETQAE VE*AEENRSLHSSLGNKKKSVSG TKEKNQKTKQNPHSKNKLTKN
20528	50896	A	20645	42	946	
20529	50897	C	20646	1	453	
20530	50898	C	20647	771	1223	
20531	50899	C	20648	324	659	
20532	50900	C	20649	427	654	
20533	50901	B	20650	343	1774	
20534	50902	B	20651	23	525	
20535	50903	B	20652	2354	5689	
20536	50904	B	20653	448	3506	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
20537	50905	B	20654	12	182	
20538	50906	C	20655	210	422	
20539	50907	C	20656	145	357	
20540	50908	B	20657	1	327	
20541	50909	B	20658	1	2595	
20542	50910	B	20659	122	472	
20543	50911	B	20660	163	418	
20544	50912	C	20661	86	517	
20545	50913	B	20662	334	2946	
20546	50914	B	20663	11	700	
20547	50915	B	20664	184	2372	
20548	50916	C	20665	267	467	
20549	50917	B	20666	131	268	
20550	50918	B	20667	18	255	
20551	50919	B	20668	100	356	
20552	50920	B	20669	120	839	
20553	50921	B	20670	355	504	
20554	50922	B	20671	1	1524	
20555	50923	B	20672	175	366	
20556	50924	B	20673	436	792	
20557	50925	B	20674	94	1347	
20558	50926	B	20675	865	1189	
20559	50927	B	20676	241	423	
20560	50928	B	20677	124	352	
20561	50929	B	20678	1	847	
20562	50930	B	20679	262	4624	
20563	50931	C	20680	76	297	
20564	50932	B	20681	1	702	
20565	50933	B	20682	1	1347	
20566	50934	B	20683	78	2874	
20567	50935	B	20684	133	7317	
20568	50936	B	20685	294	1449	
20569	50937	C	20686	139	367	
20570	50938	C	20688	154	445	
20571	50939	B	20689	1	1086	
20572	50940	B	20690	111	440	
20573	50941	B	20691	303	462	
20574	50942	B	20692	1	2905	
20575	50943	C	20693	349	453	
20576	50944	C	20694	233	376	
20577	50945	B	20695	1	2016	
20578	50946	B	20696	1464	3022	
20579	50947	B	20697	1	1059	
20580	50948	B	20698	1	933	
20581	50949	B	20699	1	930	
20582	50950	C	20700	129	215	
20583	50951	C	20701	283	408	
20584	50952	B	20702	1	1134	
20585	50953	B	20703	1	525	
20586	50954	B	20704	146	556	
20587	50955	B	20705	1	675	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20588	50956	B	20706	1	1107	
20589	50957	B	20707	1	774	
20590	50958	C	20708	52	156	
20591	50959	C	20709	1	420	
20592	50960	B	20710	1	1347	
20593	50961	C	20711	1	411	
20594	50962	B	20712	169	248	
20595	50963	B	20713	63	1321	
20596	50964	B	20714	1	359	
20597	50965	C	20715	1195	1674	
20598	50966	B	20716	964	1290	
20599	50967	B	20717	51	389	
20600	50968	B	20718	108	232	
20601	50969	B	20719	425	3545	
20602	50970	C	20720	35	226	
20603	50971	B	20721	1	387	
20604	50972	B	20722	1	1926	
20605	50973	B	20723	523	1242	
20606	50974	B	20724	42	2346	
20607	50975	B	20725	63	287	
20608	50976	B	20726	59	200	
20609	50977	B	20727	1	1176	
20610	50978	B	20728	1	769	
20611	50979	B	20729	1	2009	
20612	50980	B	20730	219	3045	
20613	50981	B	20731	195	1739	
20614	50982	C	20732	126	435	
20615	50983	B	20733	2752	4108	
20616	50984	B	20734	1	1104	
20617	50985	B	20735	24	230	
20618	50986	B	20736	1	1292	
20619	50987	B	20737	1	7977	
20620	50988	B	20738	157	2627	
20621	50989	C	20739	165	533	
20622	50990	B	20740	35	87	
20623	50991	C	20741	68	202	
20624	50992	B	20742	83	2670	
20625	50993	B	20743	162	276	
20626	50994	B	20744	104	245	
20627	50995	B	20745	66	2768	
20628	50996	B	20746	14	3115	
20629	50997	C	20747	69	203	
20630	50998	B	20748	1	2152	
20631	50999	C	20749	114	387	
20632	51000	C	20750	56	250	
20633	51001	B	20751	53	3398	
20634	51002	B	20752	642	2386	
20635	51003	B	20753	1	1242	
20636	51004	B	20754	51	601	
20637	51005	B	20755	192	463	
20638	51006	B	20756	125	1254	

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20639	51007	C	20757	208	333	
20640	51008	B	20758	155	4443	
20641	51009	B	20759	1	2529	
20642	51010	B	20760	63	321	
20643	51011	B	20761	226	645	
20644	51012	B	20762	1	1395	
20645	51013	B	20763	258	475	
20646	51014	C	20764	126	263	
20647	51015	B	20765	1	1429	
20648	51016	B	20766	51	3256	
20649	51017	C	20767	83	403	
20650	51018	B	20768	1	621	
20651	51019	B	20769	1	463	
20652	51020	B	20770	1002	3594	
20653	51021	C	20771	107	403	
20654	51022	B	20772	51	401	
20655	51023	C	20773	46	398	
20656	51024	B	20774	1	513	
20657	51025	B	20775	1	531	
20658	51026	C	20776	1	423	
20659	51027	B	20777	52	670	
20660	51028	C	20778	43	375	
20661	51029	B	20779	1	1629	
20662	51030	B	20780	1	1713	
20663	51031	B	20781	1	5154	
20664	51032	B	20782	37	585	
20665	51033	B	20783	1	3789	
20666	51034	C	20784	149	367	
20667	51035	C	20785	89	234	
20668	51036	B	20786	113	278	
20669	51037	B	20787	1	1632	
20670	51038	B	20788	1	762	
20671	51039	B	20789	230	3411	
20672	51040	B	20790	95	1150	
20673	51041	B	20791	1	1230	
20674	51042	B	20792	74	3123	
20675	51043	B	20793	1	1719	
20676	51044	C	20794	206	402	
20677	51045	B	20795	302	424	
20678	51046	B	20796	60	80	
20679	51047	B	20797	1	1248	
20680	51048	B	20798	8	1910	
20681	51049	B	20799	124	807	
20682	51050	B	20800	43	618	
20683	51051	B	20801	7	328	
20684	51052	B	20802	244	385	
20685	51053	B	20803	850	970	
20686	51054	C	20804	97	360	
20687	51055	B	20805	551	3159	
20688	51056	B	20806	861	1110	
20689	51057	B	20807	1	876	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20690	51058	B	20808	1	849	
20691	51059	B	20809	1	1443	
20692	51060	B	20810	508	2398	
20693	51061	B	20811	53	185	
20694	51062	B	20812	50	633	
20695	51063	B	20813	1	444	
20696	51064	B	20814	58	262	
20697	51065	B	20815	27	1005	
20698	51066	B	20816	1	4860	
20699	51067	B	20817	1	3489	
20700	51068	C	20818	52	363	
20701	51069	C	20819	347	499	
20702	51070	B	20820	1	4140	
20703	51071	B	20821	85	3930	
20704	51072	B	20822	848	3116	
20705	51073	B	20823	41	1211	
20706	51074	B	20824	248	4307	
20707	51075	B	20825	67	3180	
20708	51076	C	20826	229	467	
20709	51077	B	20827	71	1827	
20710	51078	B	20828	1	1045	
20711	51079	B	20829	1279	1479	
20712	51080	B	20830	1	2460	
20713	51081	B	20831	62	3691	
20714	51082	B	20832	1	1062	
20715	51083	B	20833	1	873	
20716	51084	B	20834	1	1041	
20717	51085	B	20835	161	5445	
20718	51086	B	20836	199	343	
20719	51087	C	20837	86	229	
20720	51088	C	20838	1	225	
20721	51089	C	20839	34	165	
20722	51090	C	20840	238	455	
20723	51091	C	20841	200	322	
20724	51092	B	20842	59	164	
20725	51093	C	20843	1353	1793	
20726	51094	B	20844	1	1329	
20727	51095	C	20845	43	324	
20728	51096	C	20846	223	435	
20729	51097	C	20847	212	307	
20730	51098	C	20848	386	529	
20731	51099	B	20849	300	995	
20732	51100	B	20850	876	3312	
20733	51101	B	20851	153	306	
20734	51102	B	20852	39	3131	
20735	51103	B	20853	29	136	
20736	51104	B	20854	112	333	
20737	51105	B	20855	31	474	
20738	51106	B	20856	26	1716	
20739	51107	B	20857	27	1234	
20740	51108	B	20858	1	6390	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, =possible nucleotide insertion)
20741	51109	B	20859	1	1014	
20742	51110	B	20860	128	837	
20743	51111	B	20861	1	931	
20744	51112	B	20862	357	4629	
20745	51113	B	20863	1	1017	
20746	51114	B	20864	1	1908	
20747	51115	B	20865	224	9448	
20748	51116	B	20866	1	1209	
20749	51117	B	20867	138	359	
20750	51118	B	20868	1	1567	
20751	51119	B	20869	226	9033	
20752	51120	B	20870	20	2689	
20753	51121	B	20871	1602	2647	
20754	51122	C	20872	72	452	
20755	51123	C	20873	64	423	
20756	51124	B	20874	33	363	
20757	51125	B	20875	131	1675	
20758	51126	B	20876	37	219	
20759	51127	B	20877	1	564	
20760	51128	B	20879	1	651	
20761	51129	B	20880	44	424	
20762	51130	B	20881	28	202	
20763	51131	B	20882	1	3403	
20764	51132	B	20883	110	970	
20765	51133	B	20884	70	485	
20766	51134	B	20885	482	2943	
20767	51135	B	20886	469	1480	
20768	51136	B	20887	156	308	
20769	51137	C	20888	218	348	
20770	51138	B	20889	1	5130	
20771	51139	B	20890	21	1139	
20772	51140	B	20891	1	1302	
20773	51141	B	20892	1	1028	
20774	51142	B	20893	1	858	
20775	51143	B	20894	1	2001	
20776	51144	B	20895	1	546	
20777	51145	B	20896	1	1167	
20778	51146	B	20897	1	1299	
20779	51147	B	20898	1	1260	
20780	51148	B	20899	1	771	
20781	51149	C	20900	155	337	
20782	51150	B	20901	1	1251	
20783	51151	B	20902	106	543	
20784	51152	B	20903	57	2279	
20785	51153	B	20904	905	1120	
20786	51154	B	20905	145	2277	
20787	51155	B	20906	1	1384	
20788	51156	B	20907	1	4775	
20789	51157	C	20908	99	251	
20790	51158	B	20909	1	693	
20791	51159	B	20910	77	2173	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
20792	51160	B	20911	140	313	
20793	51161	B	20912	1	392	
20794	51162	C	20913	1	222	
20795	51163	B	20914	1	951	
20796	51164	B	20915	45	1244	
20797	51165	B	20916	166	2544	
20798	51166	C	20917	279	449	
20799	51167	B	20918	1	1250	
20800	51168	B	20919	229	2094	
20801	51169	B	20920	94	434	
20802	51170	C	20921	253	336	
20803	51171	B	20922	1	1314	
20804	51172	B	20923	6	327	
20805	51173	B	20924	163	3060	
20806	51174	B	20925	20	385	
20807	51175	B	20926	22	58	
20808	51176	C	20927	141	287	
20809	51177	B	20928	37	1063	
20810	51178	C	20929	261	401	
20811	51179	B	20930	66	3148	
20812	51180	B	20931	223	4149	
20813	51181	C	20932	21	278	
20814	51182	B	20933	158	1283	
20815	51183	B	20934	8	896	
20816	51184	B	20935	240	387	
20817	51185	C	20936	312	512	
20818	51186	B	20937	451	611	
20819	51187	C	20938	160	428	
20820	51188	B	20939	110	294	
20821	51189	B	20940	121	1764	
20822	51190	B	20941	1	423	
20823	51191	C	20942	74	316	
20824	51192	C	20943	136	255	
20825	51193	C	20944	79	381	
20826	51194	B	20945	282	1180	
20827	51195	B	20946	63	371	
20828	51196	C	20947	193	672	
20829	51197	B	20948	85	898	
20830	51198	B	20949	35	1055	
20831	51199	B	20950	1	870	
20832	51200	B	20951	103	1189	
20833	51201	B	20952	501	594	
20834	51202	B	20953	39	1694	
20835	51203	B	20954	489	4797	
20836	51204	C	20955	31	153	
20837	51205	B	20956	259	699	
20838	51206	B	20957	4	231	
20839	51207	B	20958	50	520	
20840	51208	C	20959	322	456	
20841	51209	B	20960	163	1152	
20842	51210	B	20961	33	745	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20843	51211	B	20962	210	3519	
20844	51212	C	20963	34	294	
20845	51213	C	20964	301	381	
20846	51214	B	20965	71	675	
20847	51215	B	20966	1	873	
20848	51216	B	20967	118	1618	
20849	51217	B	20968	424	2415	
20850	51218	C	20969	106	231	
20851	51219	B	20970	71	756	
20852	51220	B	20971	1	1049	
20853	51221	C	20972	94	327	
20854	51222	B	20973	339	2589	
20855	51223	B	20974	89	273	
20856	51224	B	20975	1	2514	
20857	51225	B	20976	472	5831	
20858	51226	C	20977	247	300	
20859	51227	B	20978	1	2487	
20860	51228	B	20979	55	243	
20861	51229	C	20980	207	377	
20862	51230	B	20981	642	4117	
20863	51231	B	20982	44	2127	
20864	51232	B	20983	48	1127	
20865	51233	B	20984	1	3411	
20866	51234	B	20985	74	469	
20867	51235	B	20986	39	1251	
20868	51236	B	20987	223	378	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,409,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
20869	51237	A	20988	1	2577	MPPNRHRMRGETTLWNPGCDH AGIATQVVVEKKLWREQGLSR HQLGREAFLEQVWVKKEKG DRIYHQLK/KLGSSLDWDRA CF TMDPKLSAAVTEAFVGLHEKG IIYRSTAFVNWPCITLSAISDIE VDKKEITGRITLSVPGYKEKV EFGVLVSFAVKVQGS*/DDE EVVVANKLGSKTMLGDVAVA VPPPKDTRIVYQHL/KGKNVIH PFLSRSLSPSSSEDFVDMDFGTGA VKDHPRHQNDYEVGQRHGL EASIMDSRGA/PIKCASAFPGPA AGLRPGKRCWWR*RNRLFRG IEDNPMVVPLCNRSKDVEPLL RPQWYVRCGEMAQAASAAVT RGDLRLPEAHQRTWHAWMD NIREWCISRQLWGHRIYFV TVSDPAVPPGESEDLVSFYPGT LLETGHILFFWVARMVMLGL KLITGRLPFREYVLPSPCENAH GRK/MSKSLGNVIDPLDVHL/Y GISLQGLHNQLNSNLDPSEVE KAKEGQKADFPAGVPECGTDA LRFGLCAYMSQGS*K*TWNVN RIMG*RFQCNKLWKCTKFA LRGLGKGFVPSDTSNSAGHESLA DR*IRNLLTEAVRLSNQGFQAY DFPAVTTAQYSFWLYELCDVY LECLPKVLNGVDQV/AQAECA RQTLTYLTPWTLGLRLLSFMPFV TEELFQRLPRRMPQAPPSLCVT
20870	51238	A	20989	2	4083	SQRGEHVGAGCRGGDLRELGS PGEPTVSARSTPPPGLGGSQP RPAPGCEVDSPAQSDHLPVFP LRSDLLITMSTLYVSPHPDAFPS LRALIAARYGEAGEGPGWGGA HPRICLQPPPTSRTSFPPRLPAL EQPGGLWVWGATAVAQLLW PAGLGGPGGSRAAVLVQQWVS YADTELIPAACGATLPALGLRS SAQDPQAVLGA/LGRALSPLEE WLRHTYLAGAAPTADLA AVTALLLPFRYVLDPPAR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20871	51239	A	20990	1	756	MDMGAIKEGESRRPGDRMTVA GTKLLHLQSTHLDLDFISLGPSPG ALELSKAQPAHAQDTRVLMKMM VIIWDLQVPLQPGHDGHSFRIH DYLVFQVLSPGDIRYIFTATPAK DFGGIFHTRYEQIHLVPAEPPEA CGELSNGGFIQDQIALVERGGCS FLSKTRVVQEHGGRGGDHL*Q RS*QMTASTW/QMIQDSTQRTA DIPALFLLGRDGYMIRRSLEQH GLPWAIIIPVNVHQHSPPSLSCC NRPFLFW
20872	51240	A	20991	2	393	
20873	51241	A	20992	1066	1824	
20874	51242	A	20993	3	902	
20875	51243	A	20994	1	2163	
20876	51244	A	20995	1	1890	
20877	51245	A	20996	1	2882	MKQQLPVSYLQVIFNHWSRIS GARGAGWGPVRLGRLCADRAL DGESRPGGGQSGVPASEASQ KAAHGRRLPVPARLLRCAHSA LEPGRGSASSPRNSTTSDNDQPP DYSFSKRCDSHSLGFSLVWESR NLTLPPTSKLLHFSAFHFFIYKC RAEGHKLKLDLKNFLSAVKVM HESSKRVSSETLQFIYYSEWYGH EELKAIVWNNDLLWEDYEELK ADQAVRTMEIYYVAQFSEIKERI AKRGRKLVVDYDSARH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \-possible nucleotide insertion)
20878	51246	A	20997	1	1791	MPGARTSSSGASENHRARGQG GGPQGVGRMAEGKAGGAAGL FAKQVQKKSRAQEKVLQKLG KAVETKDERFEQSANNFYQQ AEGHKLYKDLKNFLSAVKVMH ESSKRVSETLQEIYSSWDGHE ELKAIVWNNDDLWEDYEELK ADQAVRTMEIYVAQFSEIKERI AKRGRKLVYDSARHHLEAVQ NAKKKDEAKTAKAEEEFNKAQ TVFEDLNQELLEELPILYNSRIG CYVTIFQNISNLRDVFYREMSK LNHNLYEVMSKLEKQHSNKVF VVKGLSSSSRRSLVISPPVRTAT VSSPLTSPSTSPSTLSKSESESVS ATEDLAPDAAQGEDNSEIKELL EEEEIEKEGSEASSSEDEPLPA CNGPAQAQSPPTTERAK/SQEE VLPSSSTPSPGGALSPSGQLSSS ATEVVLRTRTASEGSE/RPKKT ASIQRTSAPRRPPPPRATASPRP CSGNIPSSPTASGGGSA/TSPRAS LGTGTASPRTSLEI*PNPE/PPEK PVRTPEAKENENIHNNQNPPELC TSPTLMTSQVASEPGEAKKME DKEKDNKLISADSSSEGQDQLQV SMVPENNNTAPEPEEVESTSE
20879	51247	A	20998	3	273	RRPRQRPTDQTQWFSILPDFSLD LQEGPSVESQTHSDPHIPPVDP TTHLTFNHLSIVCVSLTLSLPHL GSPCLWSPALVSQEAASHQDRR
20880	51248	A	20999	309	1310	RHRQRAPEQGPDAWKMMLDSL ALGG/LVLL\RDVSVE/WEGVRSLL K\ALVKKSALCGE/QVHILGCE\ VSEKEFREGFDS**STIRLVYHD FVRDPLNWSKTEEGL/VPGGPL GALRS\WCKR/TDVPVPTIALDS LS\WLLLRLHCTTL\CQ\ALHAV EPSRTLVLGDSSSVGKVSVLGL LHERLPRPAPVVALSSLAQTKV TLGGYHGARP\SAHIL\CRRPRQ\ RPMYQTQWFSILPDFSLGSPRG ALCRVPALIPPHITPGGIPHNSF *PFNLHL\SKKEREARDSLILPFQ FSSEKQQA\LLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
20881	51249	A	21000	418	1304	GLVMEIGMHHEHHHLLQAPNK EDILKISEDERMELSKSFRVYCI LVKPKDVSLLWAAVKETWTKH CDKAEFFSSENVKVFESINMDT NDMWLMMRKAYKYAFDKYR DQYNWFFLARPTTFAIENLKY FLLKKDPSQPFYLGHTIKSGDLE YVGMGGGIVLSVESMKRLNSL LNIPEKCEQGGMIWKISEDKQ LAVCLKYAGVFAENAEDADGK DVFNQICWAFY*R/WQ*LITPN QVVEGCSMDMAVTFNGLTPNQ MHVMMYGVYRLRAFGPYFSM MHVFSYQLQMVLTMTTEKW
20882	51250	A	21001	1	1092	
20883	51251	A	21002	130	397	EGVHSQVNLFFPIKGNQTHVPAS HGTDSALPPTLQMDYRALVHE PD*AAYGELRAMVLDLRAFYA ELYHISSNLEKIVNPKGEEKPF
20884	51252	A	21003	11	805	SSMAKPCGVRLSGKGRKQVEV FYRNLFQEAEEFLRLFLPPESHI P*NRLQEDFPFNVA*/LLNLSS GAPLDIPSPDP/PP/KDDEMETD K/QEKKEVPKCDLPGNEKCP PCLPLVKPRSLDLSEKCLV/L TWGSRHLDPPRFEDGK*FWG* AIPGEGAWRG*NA/VKDPKWE AFPATPISQVLSSEGDACGPRP PQETHVMDYRALVHERDEAA YGELRAMVLDLRAFYAELYHII SSNLEKIVTPRGEEKPIYVLEP
20885	51253	A	21004	352	670	AKRSRIHGVVIVDSGDAELGR DAAALSEKPPSLTIGLHMLVGS MGGEPAATATPANCPEYPAKPS SI/EQQ*QSQVQ**Q*QVRHGS PLHRTPRQLFLCSRQFAL
20886	51254	A	21005	3	222	SPEESPACPRQVFLYHLQRG QGKRVQVG*GGSLWITTKTRL PGGVGDNEVAPGSHLALVFR LLSSGRP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20887	51255	A	21006	1	3639	MSEETLQSKLAAAKKKIQDILN VLVSDLNRSNGVVLPITLTKWK DAPEAWDLCLALRSICGLAIQL LGAAPLTRAANFSAEVTIDVR DSARRWETRKAPYLSRIALRM NEAAVFRHLVPGVYFPRCDQG CQLTAALGCGAGVQSHVGPVT VTITGPDVTAADAAGLCRVL AVVGWGGSECLTPHPYKFHVE PYGGRLLVPRLSDPGSSRREA TSKVAVDLLVDAAGADGPVS QSPVWKEAAGVVSQLRGGGQ
20888	51256	A	21011	137	944	KPRCCHSATMFEVPLVQGSILK KVLAEALKDLINACWDISSGV NLQSMDS/SHVSLQFTLPSEGF DTYRCDNLAMGVNLTIMSKIL KCAGNEDIVTLRIEDNVNTLV VFEASNQEKVSDYEIKLMDLD VEQLGIAEQEYHYVVKMLSGE FASIC*DLSHIGDAVVISGVKDG IIFASGDLGNKNKLSQTSTVD KEEEAVTMEMNEPVQLTALR YLNFLTATPLSSMVTLMMSA DIHLVVDYKIADVHGLKYLLA PKMEDEEGP
20889	51257	B	21012	205	1309	
20890	51258	A	21013	189	410	
20891	51259	A	21014	1767	2158	RAQPHLYPEAARTGRGK*LHFC APSSAPRAPVSERR/CAGRFLSW CPVAAWDPARWARRARRRRR AAARRRRPPRRRCLRSARGR RRSLNSSKTKNTKCLNSINQRL KILSLQKDLMCGTAGRCKTLTE Q
20892	51260	A	21015	1	1710	
20893	51261	A	21016	132	522	
20894	51262	A	21017	1	1386	
20895	51263	A	21018	331	3101	SFSEANISTAKKTFLYNELVYV NTRKDTWTKVDIPSPRRCAH QAVVVPQGGGQLWVFGGEFAS PNGEQFYHYKDLWVLHLATKT WEQVKSTGGPSGRSGHRMVA WKRQLILFGGFHESTRDYIYYN DVYAFNLDTFTWKSLSPGTVP TPRSGCQMSVTPQGGIVVYGG YSKQMPPHSGQSRGRKPGSCLL LLLLLLLLLLLLLVCVPLGYSL IELSSSYRI.HGNEPVPATFHGLN SHMGLVATILDNVNP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20896	51264	A	21019	2	2911	VRGPRARCRRRSSKTEPRKGPS RTSTRKLELGAGSDSISVRRAP PHEHLFPSSGERGPFSLVSRRL GPGKMGKKGKKEKKGRAEK TAAKMEKKVSKRSRKEEPGVC RRIRPDLGVECSAAAAHGFPNR GQFYGLPCARHSSLGFTPEQE DLEALIAHFQTLDAKRTQTVEV PCPPSPRKCRGSQFVVTEDSVR KGTALRLNASLSVHPEKDELIL FGGEYFNGQKTFLYNELVYVNI RKDTWTKVDIPSP
20897	51265	A	21020	1	208	DGYRHEMLPASLIQAQRDYFG AH/TYELWAKPGQFIH/TNWTG HGGTVSSSYNAFALFSVQFFK SVVRDS
20898	51266	A	21021	3	316	
20899	51267	A	21022	2	578	LIGLAVMGQNLILNMNDHGFV\ TVSKVDDFLANEAKGTKVVGA QSLKEMVSKLKKPRRIILLVKA GQAVDDFIEKLRRCDLKAKEGI LFVGSQVSGGEGARYGPSLMP GGNKEAWPHIKTIFQGLAAKVG TGEPCDDWVGDEGAGHFVKM VHNGIEYGDMLICEAYHLMK DVLGMAQDEMALCPIFCVSF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
20900	51268	A	21023	3	1758	AYANLGRTRFWREPLRVFPSLVL RASPLFGSALSAAMAQADIALI VLFVMGHNILNMKDHGFEVC AFNRTVSKVDDFLANEAKGTK VVGAQSLKEMVSKLNKPPRDQ YLLC/VKAGQAVDDFIEKLVPL LDTGDIIDGGNSEY*GTPQDG CRDLKAKGILFEGSGVSAGEE GDRYGPMSLMPGGNKEAWPHI KTIHQGIAVAKVGTGEPCCDWV GDEGAGHFVKMVHNGIEYGD MQLICEAYHLMKDVLGMAQD EMAQAFEDWNKTELDSFLIEIT ANILKFQDTDGKHLLPKIQGTS AGARRGNRGSGT/WPFGSGPKY GVPVTLNGEAVPARCLSSLKID ERIQASKKLGPKQKVFQFDGD* EHSWEDIRKALYASKIISYAQGF MLLRHAA/TEFGWTLNYGIGIA LMWRGGCHRSVFLGKIKDAFD RNPQLQNLLLDDFFKVQLFEN CQDSWR/RAVSTGVQGWAFP MPLFYRLPLSI*TGTSHEMLPAQ PSSRLQRGLLSGAHTL*NSWAK PGAVLFHTNWTG/HGGTVSSSS YQCLDHAAPVTLHDSTVPGHSI GLNGTAHLALCPIFCSVFVFSKSV
20901	51269	A	21024	317	885	MRWRSKSAWRAEPKSRRTNSGT ASNVSPSRPLEC*/RFLRLVSGE LILALIAFICITIMACSPCEGLY FFEFVSCSAFVVTGVLLIMFSLN LHMRIPIQINWNLTDLVNTGLSA FLFFIASIVLAALNHRAGAEIAA VIFGFLATAAYAVNTFLAVQK WRVSVRQSTNDYIRARTESRD VDSRPEIQRLDT
20902	51270	A	21025	4761	5127	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQT/TSRPNISPINPHTR TSKRLNRSQGAFQLNLLPQELA TSARNLTTRPRNACSPGFLLSR VPSVRDPTGNWTVQLTWQPLS EPLELWPKAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 95/40,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
20903	51271	A	21026	174	2238	LRSGLPWEINPLSSCSLLHEKD PPTTSGPQT/TSRPNISPISNPRQR RHILSMDPKLRRRSWTWVGSLLP LVFNHCRDASLIHPGFRGVRPR RDVCLGPSPLATITDAELYVT TVEGKSIPLIDTEATHSTLPSFK GPVALASIHVQNVQIKRDKEGH YIMVKGSIQQEELTILNMYAPN TGAPRFIKQVLNDLQRDLDSHT IIMGDFNTPLSLDRSTRQKVN KDIQDLNSALHQADLIDIRYTL HTKSTECTFFSAPHRTYSKIDHI VGSKALLSKCKRTEIINCLSDH SAIKLELRIRKLTQNHSTTWKL NNLLNDYVWHKEMKAEIKM FFEINENKNTTYQNLWDTFKAV CRGKFIALNAYKRKQERSKIDT LTSQLEELKQEQTRSKASRRE EITKIRAELEIETQKTLQKINES RSWFFKINKIDILLARLJKKR EKNQIDAINKDKGIATDPTIEIQ TTIREYYKHLCPNKLLENLEEMD KFLDTYTLPRLNQEEDESNNRPI TGSEIVAIINSPLTKKSPGPDGFT AKFYQRYKEELVPFLQYKEEL VPFLKLQFIEKEGILPNSFSEA SIILIPKGRDRTKKENFRPISLM NIDAKILNKILANQIQHIKKLI HHDQVGFIPGMQGFNIRKKSIN VIQHINRTKDKNHMISIDA EKA FDKIQQFSC
20904	51272	A	21027	1	181	MEEKERKRRRKRKRREEGR DGERKRMEKQKENQDPKDPPT TSGPQT/TSRPNISPISNP
20905	51273	A	21028	167	408	LGSRTFPWEINPPSSCSLLREKD PPTTSGPQT/TSRPNISPISNLVS GLFLLSSPSTLTIPQLSSFNLDD TLQSLPSLNF
20906	51274	A	21029	449	663	LGSGLPWEINTQSSCSLLCEK DPPTTSGPQT/TSRPNISPISNPDP TGNRTVQLTWQVPPELWLP KAL
20907	51275	A	21030	79	381	LGSGLPWEINPLSSCSLLREKE PPTTSGPQT/TSRPNISPISNPELA TLAGNLATGPRNARSPGFLSH VLSVWDPDENQTVQLTWQPLP QPLELWPKAL
20908	51276	A	21031	122	334	LRSGLLWEINPLSS*SLHEKD PPTTSSPQT/TSRPNISPISNPDP ENQTVQLTWQPLPELWPK AL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
20909	51277	A	21032	109	320	LGSGDLP*EINPSSCSLLREKDD PPTTSGPQVTSRNISPINPDPT GNRTVQLTWQPLPQPLELWPK AL
20910	51278	A	21033	620	717	
20911	51279	A	21034	3	678	GGGFSDRDRITALQPGQQIWM WGIGKQVGGCGWLRGKNRVV GAAKDQSGTGKEFYFIPKAMG AMEGSGQRRITLDPGAHRNPS GGYSATDCESRPAPGEINSHA SHTKPVWWFFTQTRMKFGAVT RIGGLPWEVNPILLSCSLLRE/KD PPTTSGPQSNQPRKHPISPINPEL VHVPEIWPLQGQMPAARIPPKP RPICVGP*KSTVQLTWQPLEP LELWPLSD
20912	51280	A	21035	339	1098	LGSGDLPWEINPLSSCSLLREKDD PPTTSGPPTVTSRNISPINPGET KETRFIRGPKTPAPVTDWEGSL PLVFNHCRDASLIHPRFKGVPR RRDACLGPSPLAASPTFLGKGQ RLKTDITARLPKPPRPSRTLSFS TAPRILSIVVPGSGHTLAFDVT RHRLYRESKPVVGEEDVYSEW LSDVGKSEWSFSTCASSTSVNK HDTGRRLLGKRGGMESCKGL CNFITMTKNIRSLAQMTIWQYL SPCREPV
20913	51281	C	21036	1	438	
20914	51282	A	21037	174	483	LRSGDLPWEINPLSSCSLLHEKDD PPTTSGPQVTSRNISPINRQR RHILSMDPKLRRRSWTWVGSPL LVFNHCRDASLIHHPGRGVRPR RDVCLGPSPLA
20915	51283	A	21038	590	824	PNSSWMRGEPPKIDPPTTSGPQT VTSRNISPINPGRLLSDYSPRFQ RCQTTQGRPLPWSFTLSGKSRFS GEGATWGLKT
20916	51284	B	21039	1	1596	
20917	51285	B	21040	155	2206	
20918	51286	B	21041	1	831	
20919	51287	B	21042	75	474	
20920	51288	B	21043	38	1009	
20921	51289	C	21044	335	481	
20922	51290	B	21045	66	652	
20923	51291	B	21046	1	673	
20924	51292	B	21047	1	451	
20925	51293	B	21048	74	3516	
20926	51294	B	21049	783	3463	
20927	51295	B	21050	1	807	
20928	51296	B	21051	41	1700	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
20929	51297	C	21052	18	381	
20930	51298	B	21053	1	3147	
20931	51299	B	21054	1	2586	
20932	51300	C	21055	756	1403	
20933	51301	B	21056	42	205	
20934	51302	B	21057	40	420	
20935	51303	B	21058	303	1170	
20936	51304	B	21059	1	2631	
20937	51305	B	21060	19	3093	
20938	51306	B	21061	23	241	
20939	51307	B	21062	84	1775	
20940	51308	B	21063	68	1542	
20941	51309	B	21064	74	2566	
20942	51310	C	21065	730	1023	
20943	51311	B	21066	67	1159	
20944	51312	B	21067	294	929	
20945	51313	B	21070	68	336	
20946	51314	B	21071	1	1992	
20947	51315	B	21072	1	4188	
20948	51316	C	21073	44	535	
20949	51317	B	21074	983	2636	
20950	51318	B	21076	289	1693	
20951	51319	B	21077	364	2393	
20952	51320	B	21078	471	590	
20953	51321	B	21079	1	1026	
20954	51322	B	21080	343	4253	
20955	51323	B	21081	1	819	
20956	51324	B	21082	648	894	
20957	51325	B	21083	1	1236	
20958	51326	B	21084	1	822	
20959	51327	B	21085	211	363	
20960	51328	B	21086	193	264	
20961	51329	B	21087	1	1260	
20962	51330	B	21088	143	3158	
20963	51331	B	21089	85	353	
20964	51332	B	21090	221	598	
20965	51333	B	21091	1	4878	
20966	51334	B	21092	171	362	
20967	51335	C	21093	320	408	
20968	51336	B	21094	1	1218	
20969	51337	B	21095	1	1761	
20970	51338	B	21096	315	1224	
20971	51339	B	21097	526	3482	
20972	51340	B	21098	41	4858	
20973	51341	C	21099	38	250	
20974	51342	C	21100	157	225	
20975	51343	C	21101	191	415	
20976	51344	B	21102	42	507	
20977	51345	C	21103	71	367	
20978	51346	C	21104	231	439	
20979	51347	C	21105	207	459	

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20980	51348	A	21106	1	429	
20981	51349	A	21107	184	544	VRLKILQLQRFKMYVQQLDLYFLRKIKCTLENGIVMSNTEAESGVQLKPGRWGASALYSSHHIH*A*LLVPR*VSNVVCSSRNDT*TKNKDTKNRRK*PKSSSTRRGK*KRERKEKEVT
20982	51350	A	21108	3	1200	LSQKEEEDTFIEEQLEEEKLLERERQRLHEEWLLREKQAQEEFRIKKEKEEAACKRQEEQERKLKEQWEEQQRKEREQEEQKRQEKKEKEKTFMWKPSVDLFSHLASLRTPIICQDKGNAYQEHPFEK KKKRSSQLAIPGEAFGYPHHLLAILGLRCSRKHNFPTSSPTLLIKSMFTTFGMEQCRRDDYDPDASLEYSEETYQQFLDFYEDVLPFKNVGVQF/KGLFEIQQCPRGKHCNFLHVFRRPNNEFWAANDIYLSPTDRTGSSFGKNSERRERMGMHDDYYSLRGRNRNPSPDHYSYKRNGESERKSSRHGRGKSKHRTSKSRERHNSRSRGRNRDRSRDRSRGRGSRSSRSRRSRSSRSRQSSRSRSRGRRRSGNRDRDTVQS
20983	51351	A	21109	789	907	
20984	51352	A	21110	236	1823	CPIQRQSPGPAQTGRWEPLPCTVPITLRMSEGGGAGKMAALEKMTFPKKMTFPEKPSHKYRALKKEKRKIRQELARLRDSGLSQKEEEDTFIEEQLEEEKLLERERLHEEWLLREKQAQEEFRIRKKEEAACKRQEEQERKLKEQWEEQQRKEREQEEQKRQEKKEKEALQKMLDQAENELNGT TWQNPEPLDFRVMEKDGVNCPFYSGTGACRFGDRCSRKHYPFSSPTLLIKSMFTTLGMEQCRRDDYDPDASLEYSEETYQQFLDFYEDVLPFKNVGVQF/KVSCNLEPHLRGNIYVQYQSEEECQAALSFLNGRWYVAGRQLQCEF*TGDRWKMAICGLFEIQQCPRGKHCNFLHVFRRPNNEFWAANDIYLSPTDRTGSSFGKNSERRERMGMHDDYYSLRGRNRNPSPDHYSYKRNGESERKSSRHGRGKSKHRTSKSRERHNSRSRGRNRDRSRDRSRGRGSRSSRSRRSRSSRSRQSSRSRSRGRRRSGNRDRDT
20985	51353	A	21111	289	366	

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20986	51354	A	21112	1	1289	
20987	51355	A	21113	60	367	EELGYAGRGMGARQPPARKA VSPQLQERAEPVGGSPG*GWRSRP STHGIAISHGGPACSLCSLHFTFF VDFPSLFSPICLPEGWDWQQEQ PCLLYLSSPRCTQA
20988	51356	A	21114	1	653	RRRGSAAAGGAAERKAEVGA MNMAGGKAGKDSGKAKAKA VSRSQRAVLQFPVGRHRLK TRVTSHGRVVGATAAVYSAAI LVEYLTAEVLELVAGYAS/KDLQ SKSVSLPRHLQLAIPWVIEELDS LIQGLP*AGGGVIPSHPHKS/LIG KEGDSKKTALEGMILLTQPLSLP RHLYCNWDKKNNGDMWNFLP PVKWKSIDNYCRHDKRNICMF LDSEV
20989	51357	A	21115	1	1019	SVCWAGGAPRAHSTRTHAWLG RPAMEPGSVENLSIVYRSRDFL VVNKHWDVRIDSKAWRETGRP EPIQVASVEESGSDSGLC/HHSR FCHQLDFSTGALCVALLV/LGG LPGSTGLPRELRAILPLLQLRGH IQESRVSIVRWGGPGPRVSPTNL TPAFCAPGCENPKPSLTGSWSG R*VWIGPAPSLIRHRPHAPGRTH QLRVHCSALGHPVVGDLTYGE VSGREDRPFMRMLHAFYLRIFT DTECEVECTPDPLPSLDACWS PHTLLQSL/DQL/VAGLGKQPPD P*TRG*GGPRPGSPSALLPGHGR PPPTTKPPEAEARQPGCLQWL SEWTLPEDS
20990	51358	A	21116	698	1472	RWAFRRGLSVDLGGSSAPLCP PATTARLDAEPHGSPLNSCLWE CSCLLQGIWAAGPSGLSLHYPP LSSPLGSSPPSRPQRLVLRAGR GGWVGSGVGETMTSSYGHVLER QPALGGRLDSPGNLDTLQAKK NFSVSHLLDLEEAGDMVAAQA DENVGESSRTRGGGAGLGKGL SGVQTORASAVWESSRLKMLS RVGRASLGQRMATA*GRLQLYP HAPKSVTDRSPCSSQVTKSWNR GALQHSMIFTKRCLFQTLKE

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20991	51359	A	21117	50	1226	KMAEEVVVAKFDYVAQQEQ ELDIKKNERLWLLDDSKSWWR VRNSMNKTGFVPSYVGR/EN SARKASIVKLNKDTLGIGVKR KPSVPDSASPADDSFV\DPGERL Y\DLNMPA\YVKF\YMAERED ELSLIKG\TKVIVMEKCS\DGW WRGTYNGQVGW\FPSNYVTEE\ GESPLGDHVGSLEKLA\AVVN NLNTGQVLHVQALYPFSSN DEELNFEK\GDVMDVIEKPEND PEWWKCRKINGMVGLVPQKL W*PLLQSIQLTSLGLTLTFQCGF IRPYIPGKFVGNPWYVGKVTTRH QAEMALNERGHEGDFLIRDSES SPNDFSLSLKAQGKNKHKVQ LKETVYCIWQRKSCTME*LVE HYK\KAPNFYNVNGEKLVLV
20992	51360	A	21118	132	428	
20993	51361	A	21119	3	337	AKLAGAAVPPVCARGRAAPLAA AALPAARL\PSGAGPAGLVSDV RRRPFARE/PEPRVP/SQPPALSA LGALALKLFSSPPSCWSFSVKT GVLVPWIMCISWPYFLSGNLLT MMW
20994	51362	A	21120	438	1066	LNQKGKGGRGEALKNDLVVAP PPSPRRGVR*EALHVPDTGPFK KPRKRK*NQRQREAEK*TFPR EEEEARRETHGLPAPRPPPLCP/ PAASSAPRPGKGR*LLSAE GRARRRSAGASGGAGAAATAA AAAAPEHPRGSEPRQPAAPAQ RERPRRPAPRLPPQCPRPKSGRA WTLQTTTGQKVCTGAGTRRA WRRAGAVRRRAFWA
20995	51363	A	21121	1	924	
20996	51364	A	21122	1	435	
20997	51365	A	21123	1	524	
20998	51366	A	21124	1	602	MKGKSPAHAQGPSFLHGGAG DQGRGRPITLYEDRGFGQRHY ECSDHPNLQAYLSRCNSVRVD SGCWVLYEQPNYSGLQ*FLRR GDYADHQWMGLSDSVRSCR LIPHASSHRLRIYEREDYRGQM VEITEDCSSLHDFHLSIHSFN VLEGSWVLYELPNYQGRQYLL RPGDCRW/CQDWGATDARVGS LRRARELY
20999	51367	A	21125	1	1239	
21000	51368	A	21126	298	408	
21001	51369	C	21127	92	241	

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21002	51370	A	21128	33	191	RDDPRVRPPPNSH*PQEQEPL* LIKCTSPQAPAPRTVHGPFY MRLIKMF
21003	51371	A	21129	3	1285	
21004	51372	A	21130	3	3468	QPGHTIYLLPTVICNLLPCELD FYVKGMPINGTLKPGKEAALH TADTSQNIELGVLENFPLCKEL LIPPGTQNYMVRMLYDVNRR QLNLIRIVCRAEGSLKIFISAPY WLINKTGLPLIFRQDNAKTDAAG QFEEHELARSLSPLFCYADK EQPNLCTMRIGRGIHPGMPGW CQGFSLDGGSGVRALKVIQGG NRPLGIYNIIDVKKGRGRIIDT CMVIFAPRYLLDNKSSHKLAF QREFARGQGT
21005	51373	A	21131	3	451	
21006	51374	A	21132	2	107	LEGLEES/VRDRCKKEFTDLMI MDSRLLGPTSKVK
21007	51375	A	21133	2	158	PGIPVLVYRTYTDGFFSLPSKD GDKDVMITGKLDILKPQNQHR VFTVESVI
21008	51376	A	21134	2	5632	FVRRTRCRESRCWPAETELDH WSLGEVVRGAMALQLWALT LGLLGAGASLRPRKLDFFRSEK ELNHLAVDEASGVVYLGA VNA LYQLDAKLQLEQVATGPALD NKKCTPPIEASQCHEAEMTDN VNPLLLVDPPRKRLVECGQLLK GICALRALSNISLRFYEDGSG EKSFVASNDEGVATVGLVSTG PGGDRVLVFGKNGPHDNGIIV STRLLDRDTSREAFAYTDHAT YKAGYLSNTNQFVAAF
21009	51377	A	21135	168	5568	AREKCGGAMGAGSSTEQRSP EPPEGSSTPAEPESGGGPSAEA APDITADPAIAASDPATKLLQK NGQLSTINGVAEQDELSLQEGD LNGQKALNGQALNSQEEEE VIVRQVDHIDSEVSDRSDTE MTTKSAVVHDI/TDDGQEETPD IEQIPSSSNLELTQPTESQAND IGFKKVKFVFGFKFTVKKDKTE KPDTVQLLTVKKDEGEAAGA GDHQDPSLGAEEAASKESEPK QSTKEPTELKREQ

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21010	51378	A	21136	807	1162	ISYHGRRRRRPQ/PVGPLGSCRS *SSRRWSTTGRTTFRAGWKSCS TPPSTSSLPTSTGTW*GPGTSAL LPPTPLPPPRAAATPCACACASE SRMPAARALGLRVRRRLLEGRS GKDTQG
21011	51379	A	21137	1	562	
21012	51380	A	21138	1	423	
21013	51381	A	21139	1	1871	MTTFKEAMTFKDVAVVFTEEE LGLDLAQRKLYRDMLENFR NLLSVGHQAFHRDIFHFLREEK IWMKMTAIQREGNSGDKIQTE METVSEAGTHQEWFSQQIWEKI ASDLTRSQDLVINSSQFSKEGDF PCQTE/ARTICNSHKTEI/FPRA/I GYKPSFSDVSHDFHQQLHSGE KSHTDECGKNFCYISALRIHQ RVHMGEEKCYKCDVCGKEFSQS SHLQTHQVRVHTGEKPFKCEVC GKGFRRSALNVHH
21014	51382	A	21140	1056	2988	FCILIGDKIQTEMETVSEAGTHQ EWSFQQIWEKIASDLTRSQDLV INSSQFSKEGDFPCQTEARTICN SHKTEIFPRAIGYKPSFSDVSLF DFHQQLHSGEKSHTDECGKN FCYISALHMHQVRVHMGEEKCYK CDVCGKEFSQS SHLQTHQVRVHTGEKPFKCEVC GKGFRRSALNVHH VHHKLHTGEKPYNCEECGKAFI HDSQLQEHQRIHTGEKPFKCDI CGKSFCGRSRLNRHSMVHTAE KPFRCDDTKDSFRQRSALNSHR MIHTGEKPYKCEECGKGFICRR DLYTHHMHVHTGEKPYNCKECCG KSFRWASCLLTSSESHSGIEKP FKCEECGKGFYTISQCYSHQR SHSGEKPYPKCEECGKGYKRRRL DLDFHQVRVHTGEKLYNCKECCG KSFSRAPCLLKHERLHSGEKP QCEECGKRFTQNSHLHSHQR/V HTGEKPYKCEKCGKGYNSKFI LTHQVRVHTGERPYNCKECCG SFGWASCLLKQRLHSGENPFK CEECGKRFTQNSQLHSHQVRV TGEKPYKCEECGKGFWSSTLR LTHQVRVHSTREPLKCEQHGIK NIVQNSFS/EKLPEKVHQC*KK PYKCEDL/CGKGYNRRLL/IDM HQR/VHMGECTWKRECDMCF ISQASSLRLHQNVRVHGEKP

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21015	51383	A	21141	154	1470	KDGDHMGYTYKVIERILEIGAF RPHMSLGQLQSARGVACLGCK GTCSGFEPHSWRKICKSCINAA KRTTA*HLT*KNDRLGRWLR DSKYSTLHLLG*KAGTASGFYK RNP ^M MILTNPATGKDPFTDTIT YEWGSPWEFTQETGDCSYMGA HSPREEGSQLTGHQRGAFYRA ARPAHAPGLPIYDQDPLALPVD FWRNELKTEWKEFVKIKYKSE GPSALGEVALPGQWGLAPRKE GE/GSRKKPEGGRPR/PAATTNG SLSDPSKEVEYVCELCKGAAPP DSPVVYSDRAGYNKQWHPTCF VCAKCEPLVDLIYFWKDGAP WCGRHYCESLRPR/CAPACDEI\ IFAEDYQRVEDLAWHRKHFC EGCEQLLSGLGVHRHPGVQLL VPQLAASPKRSLKGCTPTQPESP GIPTEKDKPGCARDPSLRVPDV TSKPSEINQ
21016	51384	A	21142	1	1332	
21017	51385	C	21143	147	272	
21018	51386	A	21144	160	374	ETPVSSRCEKHVSSPHLCPGIHR AVSLSSHSTCGRSWRSELHGPQ STNLSGNTLPLHFLFGAWQTG VFKM
21019	51387	A	21145	3	4366	LGAQQRELOEALGARAALAL LGRQLQAERRGLDAHERDVRE LRARAAASLTMHFRATGPAA PPPRLREVHDSYALLVAESWRE TVQLYEDEVRELEALRRGQES RLQAEETRLCAQEAALRREA LGLEQLRARLEDALLRMREEY GIQAEERQRAIDCLEDEKATLT LAMADWLRDYQDLLQVKTGL SLEVATYRALLEGESNPEIVIW AEHVENMPSEFRNKYYHYTDS LLQRENEWNLFSRQKAPLAS
21020	51388	A	21146	1	4617	RVIDCLEDEKATLTAMADWL RDYQDLLQVKTGLSLEVATYRI VEHVAVEGVSKLWKPLWQKS QSLVISSGVSTGGRLNLERLRR GPTPLASTESVKQVLVNNRMII DDEMVKTLAMSRTCAPNPLT ADVKTWSRSYSEDAATGPVL GVASTVALLEGESNPEIVIAE HVENMPSEFRNKSYHYTDSL QREINERNLFSRQKAPLASFNI SSALYSNLSGHRGSQTGTSGG DARRGFLGSGYSSSATT

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21021	51389	A	21147	2	435	
21022	51390	A	21148	1	1233	MCEEETALVCDNGSGLCKAG FAGDDAPRAVFPSIVGRPRHQG VMVGMGQKDSYVGDEAQSKR GILTLKYPFIEGHITNWDDMEK KKEAEELARNMAIQQELEKEK QRVAQQKQQQLEQEQFHAFEE MIRNQELEKERLKI VQEF GKVD PGLGGPLVPD/SGEALLRCVPHL NSLIHTAFRLSHNCKAS*ATCG GQVLETWSTEQLRKYSHNRWI APCGGA WAAVPTVSPVSCQHI CPGSGDMWNSLWKTDEE* IYH YPCSHPPQAKCWV*LLQHRERR RTFPHTGSAGPHHTGLDSCQF *AVREHGVRI/GIHETTYNSIMKC DIDIRKDL YANNVLSGGTTMY GIADRMQKEITALPSTMKIKII APPERKYSVWIGGSILASLTFQ QMWISKPEYDEAGPSIVHRKCF
21023	51391	A	21149	2	1273	PRVPRVPRVPRVSLGEEPLIPSV LRSPAHSATHMCEEETALVC DNGSGLCKAGFAGDDAPRAVF PSIVGRPRHQGVVMVGMGQKDS YVGDEAQSKRGILTLKYPFIEHG IITNWDDMEKI WAPLLTME RVSTWKRHPITL TEAPLNPKAN REKMTQIMFETFNVPAMYVAI QAVI.SLYASGRITGIVLDSGD GVTHNVPIYEGYALPHAIMRLD LAG/RDLTDYLMKIL/AKRGGY SFVTTAEREIVRDIKEKLCYVAL DFEK*WATAASSSSLEKSYELP DGAGLSPIGKWTLP/CPETLFQ YFISNGVPLEFNDNLTIPSMK\ CDIDIP*GLICPTMFLSGGTTTH PWALLDRIQKENPSGPPGTMK IKNAPPEREVTSVWD/LGGSILA SLSTFQA\MWISKPEYDDAGPSI VHRKCF
21024	51392	A	21150	95	674	

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21025	51393	A	21151	1	1536	MGGGEQGLTRTAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCCTHGGEGSTLEGS PDVPQDLFSPTLGFYGSTYPELE QGMLGGH*G/PAENQGLQVCP GEAGSSLGFSGNTPTNGLPARG DQTSYRDFWSGPQFPDTSRLTA APGAREQCCTHGGEGSTLEGS PDVPQDLFSPTLGFYGSTYPELE QGMLGGHVEASREYQMLSHV GNPDYPHALATEQATSPSTESG SAGFKGVALAMLSKITMCVRIG ILVFQDDQGSCKAFSTTGMG LVTYLLTCRAWSRLQCGASYR AHDVNVLPGCSGPAALLGDW FSLHSSDAVLPAGQGGMLSQG EADACITLPHLPPSREVVFLLGL EAGGLIPGAEGPPDMGLVRGP PAVAAGPPRWLSPEFCLLQYS EEEGCKEPLWLKVEAEVSTLYR FMPTGFTRGPFNIEHREWNTT ATWTRMISNHNKHSQRGRKMT ARLPCGGAPHFSDRTDDKWRR SSLLTRSGCQTERLLTSQTEPLP AGGSPHFSNGETGQRRSSPPQR GCDRPQALLTSKTEQQRKSASH ISYDERPGKDAPHFLDGMVAG KRRSSLRLGSQA

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21026	51394	A	21152	689	2176	PATSPTRAMAPQPSAPAAASMLL PCPECPSPGPRFMTCCLSVSTFCS PSLRRPPGSIKSSGLGGGSSRT SCRLSGVALGAGSCRLGAGGL GSTLGGNSYSSCYFSGGGGY GSSFGGVVDGLLAIGGEKA/TMH NLIDFLASYLDKVPCPWKEAN TELEVKIRD/WYQRQ/APGPAR DYSQYYRTIELQNKILATVD NANILLQIDNARLAC/ADDFT K/VETEQAALRLSVEADINGLAR RVL\DELTLARADL\EMQIENLK EEAWPTLKERTTEGRRNLALR GQVGW*RSMLMDAAAPGVDL SRILNEMPSCVDHRVTRCINRP GAELKLGSGGWTEELKRE VAT NSELVQSGKSKISEL\RRMTQAL EIELQSQLSMKA\SLEGNLGGD RATAYCVQLS/QIQLIGSGED QLAQLR/C\EMEQQ/NQDYKILL DVKTRLEQEIATYRRLLEG\ED AHLTQCKKEPVTTTRQ/VRTIVG KRSRD/GKVILLPRSRFHQTTR
21027	51395	C	21153	58	252	
21028	51396	A	21154	2	190	
21029	51397	A	21155	2	432	KMADGVHDHIDIYADVGEFNQ EAEYGGHDQIDLYDDVISPSAN NGDAPEDRDYMDTPPPVPGYG PPPGPPPPQGGPPPPPGPPPRPP GPLGPPLD/TLAPPPLPG/PP/PG VAPPPA\PHVEPSFLFLPPINS GH GLHSDRPRFH
21030	51398	A	21156	1	1070	MGGIGARAAAAGKRRRRARA PPGLPPTSDGGGGAASSLR RLHAAPPGPSAAGSASRVPTI GSEAAPAREDRRLQHSGRVRAS GSPRLTRPRPVKRRGRTRGGGA PRQGSAAARPRGGKAHSAVAS ARAAAGPGSASRPHGAASAAG TWALTYLVLFADIRVNVYVV HAVRILPSACAAAAAAASCRF ALVGVGSEASSKLMDDLPRK ELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GSSRAAFPQGGRGGRGPGGA VPGGDRFPGAPGGPPPPPFQD PSVNSDPVCGTFG/EH*PPGYQT PSNLSVRPMAKPKPEGTDLSRS REGFFKSRFAPN

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21031	51399	A	21157	63	1750	MKMAGGVNHIDIYADVGE*FN QEAIEYGGHDQIDVHDDAISPS ANNGDA PEDRDYMDTLPPITVG DDVGKGAAPNVVYTYTGKRIA LYIGNLTWTTDEDL TEAVHS LGVNDILEIKFFENRANGQSKG FALVGVGSEASSKCLMDLLPK RELHGQNPVVTPCNKQFLSQFE MQSRKTTQSGQMSGEGKAGPP GGSSRAAFPGGRGRGRFPGA VPGGDRFPAGPGGPPPPFPA GQTPRPPLGSGFQGGPGPPGPP PGQVLPPLAGPPNRRDRPPPPV LFPQGPFQGPPLGPLPGPPPPV PGYGPFGPPPPPGQGPFPFPGPF PAPRPTGSLGHPLTLPASAFSP GPAPPGAPPPSPHVNPAFFPPPT NSGMPTSDSRGPPPTDPYGRPP YDRGDYGPGRMDTARTPLS EAEFEIMNRRNAISSAISRAV SDASA/GVDYGSATETLVTASLI KTIPKYPADD/CTKFLISSLDQ CLHGIESKSYGSGRRRERSRER DHSRSREKSRHRKSRSDRHDD YYRERSRERERHRDRDRDRD RERDREREYRHR
21032	51400	A	21159	1	96	TNFKSGLLGLAAED*HCPIASE AP*TTTDAEL
21033	51401	A	21160	1	1056	MWKGPGLDMYKGSSVSPKTS DILGRDTELLALKVQTVVLQTA CGEGHVAGNCGRPLETEGSLQ LTATKKLRDSVLQPKSPFCQ FTRAWNRTQVPDETAAGTY AAQSGDLPEINPLSSCSLLHE KDPPITASGPQTDQPKHLTNFK SGFRGVRP/LQGRPLPWSFTLSGK SRFSGEGASTPTPSLCVSTSPPF WGARTQPLLLHPEWQ/CPLF* RSKYPNVLSCPSLFPRLDLS L/SAQSLISAPQLISLCPNPLFPC PDLLSLHPNPLFRPNPFPAFLE GACYKCKQSGHQAKECLQPGI PPKLRPICAGPHWKSDCPTHLA ATPRAPGTLAQGSLTASQIFLA
21034	51402	C	21161	283	408	

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21035	51403	A	21162	3	505	ILNPVSGFLFLFSSPLSLNLSLNL LFLLSILAPHFNLSILLISIPFIFP LEIELNSPGSHSQSPWNSGPRLL SDSFPDLLGLAAEE*HCPASEA FSQTYRAYLSLSLSLSPEPPT AGDGVT/HSSPVASTTITVLGQT /SKPAQCWPLPKVCCCHSLTSD YVHPRP
21036	51404	A	21163	164	420	LANFCEESGAGEPGSHSQSPWN SGPRLSDSFPDLLGLAAEDRHC PIASEAPLLQKSLYKSPCTSSTI S*CCIPRSGISELSVN
21037	51405	A	21164	50	298	
21038	51406	A	21165	49	433	SSSGIWPSHSQSLRSPAKLLS RFRCSLSLLCLATLLLVWQP LPEPELWPKA/HLTDSFPDLGL LAAED/W/HCPPISEAP*TLTDAE LRVTLTVEGKSIFPGAGKEVTL ESYWVSLTLFLICYMII
21039	51407	A	21166	282	374	CDLFLPHPN*SMYFVISPTPKKV LCNSPHT
21040	51408	A	21167	71	333	I.RSGDLPWEINPLSSCSLFREED PPTTSGPQTNPQKEHLTNFKSA AED*RCQFASEAP*TITDAKLRV SLTAEGLLATLFLNPKPEY
21041	51409	A	21168	113	342	AFGCFITGVGRVTDSDGPLYTG PWAPGSHSQSPWNSGPRLSDFS PDLLGLAAED*HCPASEAPFLT LIFLLCVIQ
21042	51410	A	21169	301	608	TFTPLKSYIKAPSSAGPVAEQE MTPEGKVGAGPE*LTWKNQFL FY
21043	51411	A	21170	2	724	FLVSLMLPPAVVMLNHCYSLIF TNALVKRLFawnMLSELATCA GNLATGPRNARSPGFLSCVPS VRDPTGNQTVQLTWQPLPEPLE I.WPKA/HLTDSFPDLLGLATED *HSPASEAPWAIMDAELRVTL TVEDRDSRSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSPCD LFLPHPN*SMYFVISPTLKKVLY NVTHP*EVS*FSPPLRMVFVRS IPCQNIALNSTAYP
21044	51412	A	21171	442	501	

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21045	51413	A	21172	266	1003	SCMCLALDPCNHGEGHQPDFS GVKFRRHGADNHEASAAATATT AAATTVAIAAAAAAAAAAAR VTLTGSHFQSPWNSGPRLSDFS PDLLSLATED*RCPIASEVPWTI TEAELRVTLTVEGKSIPLIDTG ATHSTLPSFQGPVSLAPITVVG DGQASKPLAKTPPLW/CQLGQH SFMHSFLVIPHL/CPILIRGRNII TKLSIASLTIPGSTANISLVAFPP NPKPPLCLPTSPQYHPLPQDLPS A
21046	51414	A	21173	2	245	LTALLRKS LDPRLISTGENTQTA ETMGPLSAPPCTQHITW/KGLLL TAETPKPSISSNNLNRPGGHGRL CALILLILEDSG
21047	51415	A	21174	3	324	
21048	51416	A	21175	3	552	
21049	51417	A	21176	3	435	
21050	51418	A	21177	3	1459	GAVRTWGRGFQTEKCCQASLLN FWNPPTTAQVTIEAEPTKVSKG KDVLLLVHNLPLNLAGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVVSNASLLIQNVT REDAGSYTLHIVKRGDGRGET GHFTFTLYLIPWTLTYL*RSLA QVSHYETPGKTA PPGCSTA**L N*PPDLTLFSPVLFLKYVPVPGQ AFQYPKGLKTI GSSITHL*DV/LG KGSRENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNNLYP REDMEAVSLTCDPETPDASYL WWWNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLLPKLPKPYI TINNLNPRENKDVLAFCEPKS ENYTYIWWLNGQSLPVSPRVK RPIENRILITQCSREMKQGPY\ QCEIQ/DRYGG/RSYPVLTLECP/ HIITKHSGLYACSVRNSATGME SSKSMTVKVSAPSGTGHLPGLN

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21051	51419	A	21178	3	1445	IRADPAHELENCSCPGKRLSTE RGRTAQLTAVLREFLDPRLISTE ENTQAAETMGTLSPAPCTQRIK WKGLLLTASLLNFWNLPTTAQ VTIEAQQPKVSEKGDVLLVHN LPQNLGTGYIWKQGMRDLYHY ITSYVVDGEIIYGPAYSGRETA YSNASLLIQNVTRDAGSYTLH IIKGGDDGTRGVTRFTTFLHLET PKPSISSNLPRETMEAVSLTC DPETPDASYLWWMNGQSLPMT HSLKLSSETNRTFLLGVTKYTA GPYECEIRNPVSASRSDPVTNLN LPKLPKPYITNNLPRENKDVLF NFTCEPKSENYTYIWWLNGQSL PVSPRVKRPIENRILILPSVTRNE TGPYQCEIRDYGGVRSDDPVT NLVYGPDLPRIPSFYTYRSGE VLVLSACSADSNPPAQYSWTINE KFQLQGQKLFIRHITTKHSGLY V\CSVRNSATGKESSKSMTEVEV SGKWIPASLAIGF
21052	51420	A	21179	3	1380	TAQLTAVLREFLDPRLISTEENT QAAETMGTLSPAPCTQRIKWK GLLLTASLLNFWNLPTTAQVTI EAEPTKVSEKGDVLLVHNLPQ NLGTGYIWKQGMRDLYHYITS YVVDGEIIYGPAYSGRETAYSN ASLLIQNVTRDAGSYTLHIKGG DDGTRGVTRGVTRFTTFLHLETPKP SISSSNLPRETMEAVSLTCDE TPDASYLWWMNGQSLPMTLSL KLSETNRTFLLGVTKYTAGPY ECEIRNPVSASRSDPVTNLNLPK LPKPYITNNLPRENKDVLFNFT CEPKSENYTYIWWLNGQSLPVS PRVKRPIENRILILPSVTRNETGP YQCEIRDYGGVRSDDPVTNLV YGPDLPRIPSFYTYRSGEVL LVLCGTLNPPAQYSWTINEKF QLPGQKLFIRHITTKHSGLYVC SVRNSATGKESSKSMTEVSAY SSSINYTSNGNRN

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21053	51421	A	21180	2	1341	TEGGRTAQLTAMLRQLLDPRLI STEENTQAAETMGPLPAPSCTQ RITWKGLLLTASLLNFWNPPPT AEVTIEAQPPKVSEKGDVLLLV HNLPQNLPGYFWYKGEMLDLY HYIISYIVDGKIIYGPAYSGRE VYSNASLLIQNVTRKDAAGTYT LHIIKRGDETREIRHFTFTLYL ETPKPYISSNLPREAMEAVR LICDPETLDASYLWWMNGQSL PVTHRLQLSKTNRTLFLYFGVTK YIAGPYECEIRNPVSASRSDPVT LNLLPKLPPIPYITNNLNPRENK DVLAFTECPKSENYTYIWWLN GQSLPVSPGVKRIENRILPLSV TRNETGPVYQCEIRDYGGIRSY PVTNLVLYGPDLPRIYPSFTYYR SGENLDLSCFTESNPPAEYFWPI V*GKFQSQGKLFIPQITRNHSG LYACSVHNSAAGKEISVSLFRH
21054	51422	A	21181	1	1532	MTQFPMDKRGGRSRVAITNT AVTSLEWVPFHAFIPRSTLVS QQLSTERGRTAQLTAVLREFL DPRLISTEENTQAAETMGTLA PPCTQRJWKGLLLTASLLNFW NLPTTAQVTIEAEPKVSSEKGD VLLLVHNLQNLGTGYIWWYKGA MRDLYHYVTSYVVVDGQIIKYG VPAYSGRETAYSNASLLIQNVAT REDVAGSYTLHIIKGDDGTRGV TGRFTFLHLETPKPSISSNLPNR ETMEAVSLTCDPETPDASYLW WMNGQSLPMTHSLKLSETNRT LFLLGVTKYTAGPYECEIRNPV SASRSDPVTNLNLLPKLPKPYITI NNLNPRENKDVLNFTCEPKSEN YTYIWWLNGQKPP/VSSPRVKR PH*KTGSLIPTVFTRNETGPVYQ CEIRARIYGGVRSDDPVTNLVLY GPDLPRIYPSFTYYRSGGKSSY LSCFCGTSNPPAQYSW/TIN*K VFSLPGTKALYSRHITTKHSGL YVCSVRNSATGKESSSMTVE VSDWTVP
21055	51423	B	21182	28	29751	

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21056	51424	A	21183	158	1660	EASLLEDDDGMYLRLPLTSHQ YRTAQLRAMLRKFLDPRLSSSTE ENTQAAETMGPLSAPPCTQRIT WKGLLLTASLNFWNPPITTAQ VTIEAEPKVKSGKDVLLLVHN LPQNLAGYIWKGMKDLVH YITSYVVDGQIHYPAYSGRET VYSNASLLIQNVREDAGSYTL HIVKRGDGRGETGHFTFLYL ETPKPSISSNLYPREDMEAVSL TCDPETPDASYLWWMNGQSLP MTHSLQLSKNKRTLFLFGVHK VHCRDPMECEIREPS*VASRS*P SSPWNLPLKLPKPYITINNLLNP REKKDVLAFCTCDPKSRNYTYI WWLNGQSLPVSPRVKRP/ENR DPSFLPSVTRNETGPYQCEIRD RYGGIIRSYPVTLNVLYGPDLP RIYFPISPIYHFREENLRTLSCFC GTFNPPGRVFLGTINGGSFQVIQ GQKALYSRPTTTKHSGA/LYAW LCSVTSRPLAWESSQIPWTVVKV SGSFQGTGTSSWGLNPL
21057	51425	A	21184	927	1378	QPPTLRSWDCWFAWGKRQLM SSP/STEPQVCFTEGHEIDFLLG TGMFAFSVLISCPG*LSSRSVTIR GILG*PVTRYFSHLLSCNWETLL FSHNAKTQGGTTLTPKPSKSH RPWAVRGLAPGPAALVNFSP GLSCLPTGQGLGPAAHHA
21058	51426	A	21185	1	221	ILLAQLESQDGDILRORDEFDLL VAGEICRFSALIEELEKNERPA RELLTVRPEPEPCPTCAVLRLLH LCLA

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21059	51427	A	21186	335	1963	VCDPALPPWAKQREWALEGSH SSRTSMGLLVASVTSLSGRWKF NCP/ICVQGTLEKAGSLNCG/H KNFCRACTRYCEIP/GPD/LEE SP/TCPLCKEFP/PSFRPNWQ LANVVNIERLQLVSTLGLGEE DVCQEHGEKIYFFCEDDEMQL CVVCREAGEHAHTMRFLDA AVAPYREQIHKCLKLRKEREI QEIQSRENKRMQVLLTQVSTKR QQVISEFAHLRKFLEEQSILLA QLESQDGDILRQDEFDLLVAG EICRFSALIEELEKNERPAREL LTDIRSLIRCETRKCRKPVAVS PELGQRIRDFPQALPLQREMK MFLEKLCFELDYEPAHISLDPQ TSHPKLPLVPRITQRAQFS*QM GRTSPDNQ/RFDRA/TCVSRPT LGITGGRHTWVVSIDLAHGGSC TVGVVSEDVQRKGELRLRPEE GVWAVRLAWGFVSALGSFP/IR LTLKEQPRQVRVSLDYEVGVW TFTNAVTRPIYTF/TA/STRKVI PFFGLWGRGS/SFSLSSLRSSSY LLSSKYRTHINPSTMWT
21060	51428	A	21187	217	397	
21061	51429	A	21188	529	1526	YCGRVGELAAAGELVFLWSRVG PQNPRSSRLPPITLAMFLTRSEY DRGVNTFS/PEGR/LFQVEYDIEA IKLGSHSQLAPRHREGV/ALAV/ EKRIYLP/PLMGAQAGI*GKLLG DLMLHIGLLPIEWGLICLMLKT FNSIKSRVGRHR/YPW/GSPYNG GH*QWESFEPKLCPNLGFSFG EEDAESRVPM/SRPLGSSHLFIW EELYEKGT/PSLFP*GTPFWGPFV PVWMA/SQFGSGFQRGAPRAP LPRKFPTSPMTFERS/SPSSPHF SLKQVMGGRKLNANQ/IEPRPT VPALAE/NFPHCSQRKKLEEVQ GHFKESWILRTSLGTISVLNNVP
21062	51430	A	21189	211	382	TSVSPSPVPLPC*RHPGEPTGN NASNGTSSSRDESRRPPRVVPPP QTAVAITLSTA
21063	51431	A	21190	3	96	FFFPQKYD*DR*EHPFRHKT/LR NWRVGAQ
21064	51432	A	21191	1	1320	
21065	51433	A	21192	1	339	

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21066	51434	A	21193	289	3694	MAFVFPVPIESYSHVLAEFESLDP LLSALRLDSSRLKCTSIASVRK WLALGSSGGGLHLIQEGWKH RLFLSHREGAISQVACCLHDDD YVAVATSQGLVVVWELNQERR GKPEQMYVSSEHKGRRVTALC WDTAILRVFVGDHAGKVSIAIK LNTSKQAKAAAFVMFPVQTIT TVDSVVQLDYL DGRLLISSLT RSFLCDTEREFWKIGNKERDG EYGACFFPGRCSGGQQLIYCA RPGSRMWEVNFDEGEVI
21067	51435	A	21194	2	128	
21068	51436	A	21195	1041	2238	LLHPAQRSLSKDGTGESLEDA LMGEEGKPEINQQLSLESME ELALEKYPIAAPLPYPEKSS GVGNPEAKILSGTPYKRRVIS LVTIENHTPLVELSEYLGNTLS EILDSPWEGAKNVYKCECDQ NFSHSHYLVHLQKIHSGEKKHK CGDCGKIFNHRANLRTHRIHT GEKPYKCAKCSASFQSHSLSR HMNSHVKEKPYTCSICGRGFM WLPGLAQHQKSHSAENTYEST NCDKHFNEKPNLALPEETFVSG PQYQHTKCMKSFQSLYPALSE KSHDEDSERCSGCGDNFFFSK FKPLQCPDCDMTFPCFSELISHQ NIHTEERPH*CKTCEESFALDSE LACHQKSHMLAEFFKCTVCGK TFKSNLHLITHKRTHIKKHVK
21069	51437	C	21196	156	389	

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21070	51438	A	21197	1	2466	MLSRLFRMHGLFVASHPWEVI VGTVTLTICMMSMNMTGIAG LFTIFSSFVSTVVIHFLDKELTG LNEALPFLLLLIDLRASTLAKF ALSSNSQDEVRENIARGMAILG PTFITLDALVECLVIGVGTMSGV RQLEIMCCFGCMSVLANYFVF MTFPPACVSLVLELSRESREGR PIWQLSHFARVLEEEENKPNPV TQRVKMIMSLGLVLVHAHSRW IADPSPQNSTADTSKVSGLDE NVSKRIEPSVSLWQFVLSKMIS MDIEQVITLSALLLAVKYIFFE QTETESTLSLKNPITSPVVTQKK VPDNCCRREPMLVRNNQKCD VEEETGINRERKVEVIKPLVAET DTPNRAFTVVGNSLLDTSSVL VTQPEIELPREPRNPEECLQIL GNAEKGAFLSDAEIQLVNAK HIPAYKLETLMETHERGVSI RQLSKKLSEPSLIQYLPYRGY NYSW*WGACCENVIGYMPPI VGAGPLCLDEKEFQVPMATT EGCLVASTNRGCRALGGGAS SRVLADGMTRGPVVRPLPRACD SAEVKAWLETSEGFAVIKEAFD STSRFARLQKLHTSIAGRNLYIR FQSRSGDAMGMNMISKGTEKA LSKLHEYFP*NCRF*AVSGNYC TDKKPAAINWIEGRGKSVVCET VIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHA
21071	51439	A	21198	236	3022	GEGSFRSATALTGARLSVGAGV RWPLVRSGGKDSVATMLSR LFRMHGLFVASHPWEVILGTVT LTICMMSMNMTGNKICGWN YECPKFEEDVLSSDIJLITRICA ILIYIFQFQNLRLQSGKYILGIA GLFTIFSSFVSTVVIHFLDKELT GLNEALPFLLLLIDLRASTLA KFALSSNSQDEVRENIARGMAI LGPTFTLDALVECLVIGVGTMS GVRQLEIMCCFGCMSVLANYF VFMTFFPAC
21072	51440	A	21199	1	450	CKSRGSNLRVHFKNTRETAQAI KGMHIRTATKYLKDVTLQKQC VPFRRYNGGVGRCAQAKQWG WTQGRWPKSAEFLVIEHIQV NKAPKMRRRTYRAHGRJNPYM SSPCHIEMLTEKEQIVPKPEEEV AQKKKISQKKLKKQKLMARE

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21073	51441	A	21200	1	876	
21074	51442	A	21201	1	1725	
21075	51443	A	21202	278	889	SVKMMVRYSLDPGGTPRKSC/KS QRGSNLRVPFKDHS*KLPQAHQ RVCHIRKSPTKY/LKDVHLTRN QCVPIPDRYNG*QLGGVQRRHK QMGP GTTKGRW/PQKGV/LKFL PAHALKTAE/SNAEL/KGLD/VDS LVIEHIQV/NKAP/KMRRRTYR AHGRINPYMSSPCH/EMULTEK EQIVPKPEEEVAQKKKISPEETE RNKNLLARE
21076	51444	A	21203	1	1923	
21077	51445	A	21204	1	280	
21078	51446	A	21205	1	109	
21079	51447	A	21206	1	638	
21080	51448	A	21207	1	396	
21081	51449	A	21208	26	969	HGVCGRDGLPMECRFLCQIFM AFMQMNSYCARHKKATRRTV* /CRNQDMTESSQKWTGKGS/AV EHLVESGEWTMHPARPVSACR CPSDCHVPLSPGACWPKLECLS EGSSYISDGKEYLFYLNVCGET EIQFCNKKQAAV/CQVKKSDTS QVKAAGRYHNQTLRPSESSWS LLFVVLVFFPGVHSPFSLDEALT LCPQNCLPPGTVSAPLNCVYPL ALSAVALAAGSELMECHRLV NSLEVSTAAQGSSTQFYACL CRLSTHLWKYSEESGRR/LVCSF YQPSLNPALNLSFLVGTRLQE GAALLFIQSGFTIV
21082	51450	A	21209	1	465	
21083	51451	A	21210	217	453	
21084	51452	A	21211	1	840	
21085	51453	A	21212	1	663	
21086	51454	A	21213	176	957	DEPIGVPLLSAPPAGTTIKADQ LHLQGAAPKICPCLQDGS/LQH YCFVFSFRYYINLCQKIYKGPL GCSERASICRRTTTGDVQVLGL VHTQK/LGVIGPRVVVTTSKRY PCGGNKTASSVIELTCTKPVGR PAFKRFEIDSTCYFSDWSGAA CAVKPQEVQMVNGTITN/PINGK SFS/LGDIYFKLFRASGDMRTNG DNYLYEIQ/SSITSSRN/PACSGA NICQVK/PNDQHFSRKVGTS/DKT KYYLQGNPWLPTKFHI

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21087	51455	A	21214	3	7616	SPVEPRSPRAPAPSPPPPLPWRR DPVPGAAPSSRAPLASRPPRSSG PGAMGAAAGRSPhLGPAARR PQRSLLLLQLLLVAAPGSTQA QAAPFPELCSVTWEAVDTKNN VLYKINICGSVDIVQCGPSSAVC MHDLKTRTYHSVGDSVLRSA RSLLEFNTTVSCDQQTGTHRVQ SSIAFLCGKITLGTPEFVTATECV HYFEWRTTAACKDIFKANKE VPCYVFDEELRKHDNLPLIKLS GAYLVDDSDPDTS
21088	51456	A	21215	2	184	VNCQPLGMISLMKR\PPGFSPFR SSRIGEIKEETTSRLRSEYKGR PPKAGAEPAEREVS
21089	51457	A	21216	1	203	
21090	51458	A	21217	1	1107	
21091	51459	A	21218	1	915	
21092	51460	A	21219	1	1932	
21093	51461	A	21220	2	746	

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21094	51462	A	21221	1	2157	MGFPLRPSPAHLSGRQQFPAK EERLLLSLTQESQSEEDCNDKD LFKAVDAALKKYNSQNSNNQ FVLYRIEATKTVGSDTFYSFK YEIKEGDCPVQSGKTWQDCEY KDAKAATGECTATVGKRSST KFSVATQTCQITPGGWFLWHC PGGKLTISDYPNSSRVLHCTQC VQGLNRRTRRHKTCPLQAAS QIEERIGFEGRPGLESFRAPCLL ASPFPCLEKGAEGPVVTAQYDC LGCVHPISTQSPDLEPILRHGIQ YFNNNTQHSSLFMLNEVKRAQ RQAAP/GREFSSMDTFEGYEGA EDMEKLAGPFPVG*QSRNLFQ IRFPGEERKHPGRKRRT*GSN GDRQHGEQACWGVHAG*LLR GRRLVSRGRGARGPPPRRAAL PAVAPAPRLQSARIPERGDGDD GVRRWGHREAGS*GQS/LS/CN GIILIKEERLPCPFHCISLMKRPP GFSPFRSSRIGIKEETTVSPHT SMAQAQDEERDSGKEQGHTRR HDWGHEKQRKHNLGHHGKHKE RDQGHGHQRGHGLGHGHEQQ HGLGHGHKFKLDDLEHQGGH VLDHGHKHKHGHGHGKHKNK GKKNGKHNGWKTEHLASSED STTPSAQTQEKTEGTPIPSLAK PGVTVTFSDFQSDLIATMMMPI SPAPIQSDDDWIPDIQIDPNGLSF NPISDFPDTTSPKCPGRPWKSVS
21095	51463	A	21222	207	424	HHINCVLVLYLQSHLRS/CEYQQA RPPKAGAEPAEREVSLTNWA ESSTPRHIAPTTASNLEMEGQE ERWDRI

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21096	51464	A	21223	170	1487	IMKLITILFLCSRLLLSLTQESQS EEIDCNDKDLFKAVDAALKKY NSQNQSNQFVLYRITEATKT GSDTFYSFKYEIKEGDCPVQSG KTWQDCEYKDAAKAATGECT ATVGKRSTTKFSVATQTCQITP AEGPVVTAQLRTCLG/CVWHPI IQRQSPDLEPILRHGIQYFNNNT QHSSLFTLNEVKRAQRQVVAG LNFRITYSIVQTNCSKENFLFLT PDCKSLWNGDGTGECTDNAYIDI QLRIASFQSNWDIYPGKDVVQ PPTKICVGCPRDIPTNSPELEETL THITITLNAENNAISYFKIDNVK KARVRVVAGKKYFIDFVAR\ET TCSKVESNEELTESCETKKLG/Q RLG/CNAEVVYVPWAEKKIYPT/ VFNCSTTGEWIFT*WKRPPRVF SPFRS/SRIGEIKEETVSHLRSC YKGRPPKAGAEPASEREVS
21097	51465	C	21224	21	281	
21098	51466	A	21225	204	441	QISQVLIHCNQK*VILTGNFLDT YF*TTFINKKIDELRLCA/CAVA HSYNTTLCKKPRWKDCLRPV QDQPVQHSETLSL
21099	51467	A	21226	333	604	SSDRITKPPSAEFLPLQRTFLHSL QDTVIELLH*DLETPLTVLQNH PSLPRIPAPPITLCPQTRWPHLR GHQGILAAASHILETALAIF

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21100	51468	A	21227	846	3269	GFMEVLRLDPKKNSSSEKPAQS GFSRGNSPLSCPESVEASPAVNE KSVYSTHNYGTTQRHGCGRGLP YADHNYGAPPPPTPPASPPVQTI IPRSDLNGLPSPVEERCDSPPNS EGETVPTWPCGLSQDGFLLNC DKCRGMSRGKVIRLHRRKQDN ISGGDSSATESWDEELSPSTVLY TATQHTPTSTILTVRRTPKPKR KKSPEKGRAAPKTKKIKAFREG SRKSLRMKNPSSEAQNLDENTT EGWENRIRLWTDQYEEAFTNQ YSADVQNALEQHLHSSKEFVG KPTILDINKTELACNNTVIGSQ MQLQLGRVTRVQKHKRILRAA RDLALDTLIIHYRGKVMLRQQF EVNGHFFKKYPYFVLFLLQNL NGVEMCDARTFGNDARFIRR SCTPNAEVRHMIADGMIHLICIY AVSAITKDAEVTIAFDYEYSNC NYKVDCACHGGRNCPIQKRN S*CYRTATPTTSSKPTHHWSRD *T*KSIRRKELEMEQNEASEEN NDQSQSEVPEKVTVSSDHEEV DNPEEKPEEEKEEVIDDQENLA HSRRRTREDRKVEAIMHAFENLE KRKKRRDQPLEQNSDVEITTT TSETPVGEETKTEAPESEVSNSV SNVTIPSTPQSVGVNTRRSSQA GDIAAEKLVKPPPAKPSRPRPK SRISRYRTSSAQLRKQKQANA QQAELSQAALIEGGNSLVPTPT
21101	51469	A	21228	2	197	CRPPSPRPVRAARPARPQASFRR EPPPRRMAP*SKRRRQSGRGPV RPSRVWARIKAKPYSCCCQL
21102	51470	A	21229	4	488	GSYDINRQDTFQKDRQRVGPSPG ASQKTEGFLRLLYSGLIAHCS LEILGRNDPPASASKVAETTDS GSLSLANT*PPTPR/VTSQTANA TSQAAPALPLGSPVGRRAADPR PLLAWAPAPPGPGTSRNTHPAP DGLDMLVPIGDGVLGGNCFRN QCKSVSTS
21103	51471	A	21230	124	293	

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21104	51472	A	21231	239	1393	IYPQISFQKKFVFFSEALCTA RAEEDPIGLLNNPRTSRYSRL KPNSSLGGSESRTQMGLPPP PKSPDGA RPPVPGCIKEAGPARG RSRLAPNPGALRRG/VGLGR*S ARI*GLVSKAAAGQGEARRGE AT*ARGALGRTTAGSFNAGWL TLDGARQQGRQTPTRIPSCVA DNAAGPSRTTTPD/EALRPLRG GPACTAPASFSDRAPYSASSAPS EGRWPSRGFPPI/PLYSQLPETR SHEWQAASKIQPRKASTSQ*SA RMEAT*QQWAGPPAEP*SLWFP RLARRSVVHWRTPY/ISSSITSLP PVAAGIPEDSGPGSTQSSSRPGN TSSSSRPPPPPPPP/QPLPPPPA GLASRPVRARRPARPQASFSR EPPPRRMAP
21105	51473	A	21232	107	234	
21106	51474	A	21233	224	227	LPQPGPGRRRACLQASPRQYS RLPGRPPPSG*SW
21107	51475	A	21234	67	607	QRSWAGPGA GPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLLI MLGSVCHRGSPCGLSTHVEILL LEHQDAYQAGIVFPDCFYPSIC KGGKFHDVSESTHWTPLNAS VHYIRENYPLWEKDETEKLVA LFGITSHMAADVS WHSLGLEQ GFLRTMGA I
21108	51476	A	21235	54	193	
21109	51477	A	21236	1275	1764	STKQCYFSHLLLLFSASESKQLL LYSAFFRYVPVKDLLGIYEKLYI CFISLLQTGL*RYQE*YHIHFIS FSLP*LYPTYSTKSPFLVEQFQE YFLGGLDDR*NSCL*RSR*MAN SFDCLSDSVLQGVVFSVVTSL FLFLFNSSKMOKNDFHRNLTT S
21110	51478	A	21237	297	428	QCQRGPGCSRGHGI*IEHWTA FGLDLRLQWFARGSWASGHGP

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21111	51479	A	21238	3247	5958	QRSWAGPGAGPEAGTRPPARG RRRQPGNVDPRRRAPQLRSQM QVAMARATTATGNRLWPGLL MIVMASLCHRGSSCGLSTHIEIG HRALEFLHLHNGHVNYKELL EHQDAYQAGTVFPDCFYPSLC KGGKFHDVSESTHWTPFLNAS VHYIRENYPLWEKDTKLVA LFGITSHMVADVSWHSLGIEQG FLRTMGAI DFHGSYSEAHSGD FGGDVLSQFEFNFLARRWY VPVKDLLGIYEKLYGREVITEN VIVDCSHIQFLEMYGEMLA VSK LYPSYSTKSPFLVEQFQYFLG GLDDMAFWSTNIYHLSTFMLE NGTSDCSLPENPLFIACGGQQN HTQGSKMQKND FHRNLTSSLT ENIDRNIN YTERGVFFSVNSWT PDSMSFIYKALERNVRTMFIGG SQLSQKHVSMPLRHHYFLSPY ARLGWAAMTSADL INQDGVHGD LRGWGAPGLTAAPAHIPHSGR VYLIYGN DLGLPPVDLDLKEA HRILEGFQPSGRFGSALAVLDF NLDGV\PD LAVGAPSVGSEQLT YKGAVVYVFGSKQGGMSSPN ITISCQDIYCNL GWTLAADV N GDSEPD LVIGSPFAPGGGKQKG IVAAFYSGPSLSDKEKLNVEAA NWTVRGEEDFSWFGYSLHGV T VDNRTLLLVGSPTWKNASRLG HLLHIRDEKKS LGRVGYFPFN
21112	51480	A	21239	2	403	VVAEEDTEL RDLLVQTLENSGV LNRIKAELRAGVFLALEEQEKV ENKTPLVNESLKKFLNTKDLQ GLEGRENLARDLGIIIEAGTVG GPLLLEVIRRCQKQKEGPTTGE GALDLSDVHSPPKSPGKTSAQ
21113	51481	A	21240	3	1699	

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21114	51482	A	21241	3	1812	APRLKMGHHPNKPVSQSRVNV DGQCKLHAAVDSRDPDGTGR RVSSGGTGLPGGRGPGLPAGA WLSAEGRGAGSGDCGPSSGS AEPTQRPPRPSALPGAIPPLHLG LAPFRLEASEAVAEQAPPPAPTLS FGAQWSGAPQGSVSSVNPGEA GPARCASGRGFGCVGRVARAR SVPCCGRWPLARLRRLSWRSK MAATAAAVVAQEDTELRLDL VQTLNENSGVLNRKAELRAAV FLALEEQEKVENKTPLVNESLK KFLNTKDGRVLVASLVAEFLQFF NLDFTLA/VFQETS/TIF*LLF*L QGLEGRENLRDLGIIEAEGTV GGPLLA/LEVIRRCQKEKGPTTG EGALDLSDVHSPKSPGKTS QTTSPKIPRYKGQKKKTSQK AGDKKANDEANQSDTSVLSL PKSSSLHLLSHETKIGSFLSNR TLDGDKDAGLCPDEDDMEGDS FFDDPIPKPEKTYGLRKEPRKQ AGSLASLSDAPLKSGLSLAG APSLKDSKSRGNTVLKDLKLI SDKIGSLGLGTGEDDDYVDDFN STSHRSEKSEISIGEEIEDLSVEI DDINTSDKLDLTDQTLTVSCLS DVADYLEDVA
21115	51483	A	21242	419	651	TNIFSRNLNPQTNVFCARQLSS* SVTI*GVLGQAVTRYFSQALSC DWGTLFSAFLIMPESPTLLG RDILAKAGA
21116	51484	A	21243	555	888	RTSSRRTPNPCRIRKNYFKFH MEPKKSP/*PRQC*AKRTKLEA SCYLTSNYTTRLQ*PKQHGWW TIRSFSSHEAIFQTITWGKTLDN TRLRTEVPAAFHSALCPWFIEI
21117	51485	A	21244	728	1428	
21118	51486	A	21245	238	505	INVGRHHVILQGLSCPGQLSSRS VTI*GVLGQAVTYIFSQPLSCD WRTLLFSHVFLIMPESPTLLGR DILLYVCIGRFPIFRADCT
21119	51487	A	21246	940	1434	QLAPCTLTPEPRVCLTIEGQEVN CFLDTRAAFLVLLSCPRLSSRS VAIRGVLGQAVT*YFSQPLSCD WGTLRFSHAFIMPESPTLLG RDILAKAGAILHEKRAFMRRR EIKKQARSSKVHTSAASSCART APLGSFAEHLIKIADFTPPSSSS PCTTLFFS

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21120	51488	B	21247	747	1138	
21121	51489	A	21248	1685	2051	SSSRTEGARGKRQMPSP/STEP RVCLTIEGQEVNCLLDTGAAFS VLLSCPGQLSSRSVTI*GVLGQP VTRYFPQLSCDWGTLFNSAF LIMPESPTLLGRGILAKAGAIH HAVLVTAAL
21122	51490	A	21249	2	1014	GGAGPVVLRRAACSPGPAPR AARPPAMEPGDPGAASGPAAI REGWFRETCSLWPGQALSLQV EQLLHHRRSRQDILVFRSKTY GNVLVLDDGVICTERDEFSYQE MIANLPLCSHPNPRKVLIGGGE GGVLAREVVKHPSVESVVCCEI DEDVIQVSKFLPGMAIGYSSF EADTYMWGDGF*VSWKQKQD AFDVNIIDSSDPMGPAESLFKES YYQLMKTA/LLEDGVLCCQG \ECQWLHLDLKE/MRQFC/QSL FPV/VLAYAYCTIPT/YTPSGQIG FMLCSKNPSTNFQEPVQAVDN SSKVAKMQLKYYYNSEARATA AFVLPE\FAHQGLE
21123	51491	A	21250	3	418	FSYEKLLNWQEFVADLEHHSY RSFLGLTCLKQISTRTDFIIDTL ELRRDMYILNESLTDPAIVKPL AEEMLSYARDDTHYLLYIDK MKLQMRERGNRQTVQLHVWV QRSRDICLKKFIKPIFTDESYLE LYRKLEK
21124	51492	A	21251	1	1704	
21125	51493	A	21252	1	3104	MFDTHQAARLLNLRHSLDHL LKLYCYNVDSNKQYQLADWRIR PLPEEMLSYARDDTHYLLYID KMRLEMWERGNQPVQLQVV WQSRDICLKKFIKPIFTDESYLE ELYRKQKHLNTQQLTAFQLL FAWRDKTARREDESYGYVLPN HMLKIAEELPEKPGIACCN PVPLVRQINEMHLLIQARE MPLLKSEVAAAGVKSGPLPSAE \RENVKSQPVQVHL*QRPVLT GRKLLPACTFYMPACWGL

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21126	51494	A	21253	2	2775	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFYRSFPGFQAFC ETQGDRL/CFQCMSRVMQVPM GC/RSNIKDRSKVTELEDKF/D LL/V/DAN/DVILERVGILLDEAS GVNKNQQPVLPAQLQVPKTVV /SSWNRKAAEYGGKAKSETFRL LHAKNIIRPQLKFREKIDNSNTP FLPKIFHSNPMVQ/KPLPQALSK ERRERPQDRPE
21127	51495	A	21254	3	2668	QALARRAVQAEKMAPPSTREP RVLSATSATKSDGEMVLPGFDP ADSFVKFALGSVVAVTKASGG LPQFGDEYDFYRSFPGFQAFC TQGDRL/QCMSRVMQYHGCGRS NIKDRSKVTELEDKFDLLVDAN DVILERVGILLDEASGVNKNQQ PVLPAQLQVPKTVVSSWNRKA AEYGGKAKSETFRLHAKNIIR PQLKFREKIDNSNTPFLPKIFIKP NAQKPLPQALSKERRERPQDRP EDLDVPPALADFIHQQRQTQVE QDMFAHPYQYELNHFPTADAV LQKPQPQLYRPIETPCHFISSL DELVELNEKLLNCQEFVBLEH HSYRSFLGLTCLMQISTRTEFII DTLELRSDMYILNESLTDPAIVK VFHGADSDIEWLQKDFGLYVV NMFDTQAARLLNLGRHSLDH LLKLYCNVDSNKQYQLADWRI RPLPEEMLSYARDTHYLLYIY DKMRLEMWERNQGPVQLQV VWQSRDICKLKFIPFTDESY LELYRKQKKHLNTQQLTAFQL LFAWRDKTARREDESYGYVLP NHMMLKIAEELPKEPQGHACC NPVPLVRQINEMHLLIQAR EMPLLKSEVAAGVKKSGPLPSA ERLENVLFPGHDCSHAPDGY IIPSGSVVPQKQASLFPDEKED NLLGTTCLIAATVITLNFNPSAE DSKKGPLTVAQKKAQNMESFE
21128	51496	A	21255	98	286	HARPRHGPRLRCEVGLRCAPG YAGASARPTCEGDTTRYCPQDP NQT*SRPVPIAHRYCLTG
21129	51497	A	21256	1020	1280	
21130	51498	B	21257	153	3804	

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21131	51499	A	21258	159	579	PNVRWCPS\CYRNQDDHELQIT HGNKILCGIVWKIAQVEQMR KFSRLEKQRTHV\SCSDLQAVR RFRGVVSEGSFEMGEKVYKRK DMFQLSLLTEQHGDSTLGS GSS YTQMPAENGSLVHTLVTAAPPF FAEKPHSITAG
21132	51500	A	21259	1	1290	MGASRSQKPGPSRDYSYTAGC DVDQRRRGAQKLSRSDTKRIV MSYGKKALKNDKFEIRAFSSSL EVRYRNQDDHELQIHTGTRFY VELCGFAVTRLRDP\PMRLHAA MALLPWRPPDYSASLLPDWLP VPSSKVITYYPGFTSIWAFSNT T/LCSEYKYCYCECRSKQE/AHK RRKV*KLPMLAP/HLKRFKYK DQLHRFTKLFRASLRGPRDER LKRVSRLFLSVVVTSRVFDVL LRILHRLGQYVSSEYVVALMCS EGHGPGEADVTELLQSHEKTE WMRSCFFWMTKSGVFDGIYLW NAFNQEGEDLYKENCKTLMKE VEDAQINGKTSYAHGSEYCK MSILPRILLQKISRDDCFKIVLKF CVDHQKTKKCCMITLKSSVVQ LAFTIKISVSEMCAREDFVVVIS FQHSEVPSRQLARCTFKEGYT
21133	51501	A	21260	3	142	
21134	51502	A	21261	1	1368	

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21135	51503	A	21262	1	2420	MEEVAEAPQPIDPKPLATQPQSI IITITITITITITITITITITITITITIT IITITITITITITITITITITITITITIT TITITITITITITITITITITITITITIT VITITITITITITITITITITPSSSSPSS QADECWGEAEPLMSRQAHVW LRYRTGCREERPDQELIGSWG HGPRSTLVRAKAMAPPPPLAA STPLLHGEGFSGYPARGPRFALTL TSQALHIQRLRPKPEARPRGGL VPLAEVSGCCTLRSSPSDSAA YFCIYTYPRGRRGARRKATRTF RADGAATYEENRAEAQRWAT ALTCLLRGLPLPGDGEITPDLLP RPPRLLLL.VNPFGGRLAQWQ CKNHVLPmiseaglsfnliqter QNHARELVQQLSLEDWDGIPT VSGDGLLHEVLNGLLDRPDWE EAVKMPVGILPCGSGNALAGA VNQHGGFEPALGLDLLNCSLL LCRGGGHPLDLLSVTLASGSR FSFLSVAGWGFVSDVDIQSERFR ALGSARFTLGTVLGLATLHTYR GRLSYLPATVEPASPTPAHSLPR AKSELTLTPDPAPPMASPLHR SVSDLPPLPQPALASPGSPEPL PILSLNGGPELAGDWGGAGD APLSPDSTAGFTSWLSQGSSTLT RLRRGPRNSPILWAPTSHP*CPG RGLHARGPPDHLPLPLGTLPDP WVTLEGDFVLMIAISPSHLSAD LVAAPHARFDDGLVHLCCVRS
21136	51504	A	21263	573	1025	RKQSHEDWRSTNKTGVGHPSA RLYEPWWAHTWTPPGGSKAP SDP/PLSHQLSPPAGQPHFASPEP TSKTPDPWPNGVFSFPLPQSLP ELRHTLYLPMGTGKPPGSSMIF YT*AQYPGTNSSATICRLLSYKS GQVYPNTGQAPPQQRGR
21137	51505	A	21264	48	327	EELEALRRQRLAEIQAQKHGDP GDAVQQEAKHREAMRNSILA QVLDQSARARVSEQGLIEILKK VSQTEKTTTVKFNRRKVMDS DEDDDY
21138	51506	A	21265	1	400	
21139	51507	A	21266	786	905	VSEQGLIEILKK*COLTEKSTV KFNRKRVMSDEDDDY

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21140	51508	A	21267	907	1327	PRLQRSTPSPWRTELEALRR\QRLADAAGQNTGDPGDA\QQEAKAPGQAE MRNSILAQVPGSSPAPAPRLSNLSHLVKP*KNLKPVENYPYTRLARYVTT*VMTGIRNQG FN*KSLKKVKAQ/QTEKT TVVKFNQKKK
21141	51509	B	21268	1	828	
21142	51510	A	21269	317	2390	KWPKMNPQQQRM AIGTDKE LSDLLDFSAMFSPVNSGKTRP TTLGSSQFSGSGIDERG/GTTSWGTSQGPSYSDSSRGFTDSPHYSDHLNDSRLGAHEGLSPTPFMNSNL MGKTSERGSFSLYSDTGLPGCQSSLLRQDLGLGSPAQLSSSGKPGTAYYSFSA TSSRRRPLHDSAALDPLQAKKVRKVPPGLPSVYAPSPNSDDFNRES PSYSPKPPTSMFASTFFMQDGT HNSSDLWSSSNGMSQPGFGILGTSTSHMSQ/SSSYGNLHSHDRLSYPPHSVSPT/DINTSLPPMSSFHRGSTSSPYVAASHTVPPINGSDSILGTKGNAAGISSQTGDALGKALASIYSPDHTSSSFSPNPSTPVGSPSLTGTSQWPRPGGQAPSSPSYENSLHSLQSRMEDRLDRLDAIHVLRNHAVGPSTSLPAGHSDIHSLLGPSHNAPIGSLNSNYGGSSLVASSRSASMYGTHREDSVSLNG/NH SVLSTVTTSSTDLNHKTQENY *RWPKCSQSGTVVPQEIKTENKEKDENLHEPPSDDMKSDD*SSQKDIK VSSRGRTSSTNEDEDLNPEQKIEREKERRMANNARERLRVRDINEAFKELGRMCQLHLKSEKPTQKLLILHQAVAVILSLEQQVRERNLNPKAACLKRREEEKVSAVSAEPPITLPGTHPLSETT
21143	51511	A	21270	2	153	QNASSPSKGSQLLTSKGTKLDGE*V**INRSRLQKVANNKLLWRKLKGQF

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21144	51512	A	21271	1	1230	MRKTQCKNAESSKNQNASFPFKDHNSLTAREQNWIEFEGELTEVGFRRLNQEEVEFLNRPI TGSEIEAIINSLATKK/GPEGFIAEFY*RTQCKNAESSKNQNASFPKDHNSLTAREQNWIEFEGELTEVGFRRLNQEEVEFLNRPI TGSEIEAIINSLATKKRTRGHISRLLEVI TSFYVERGGNAMSFMGKGVTKSTILCLLHLSHEMMAQAGSLEWMSLWFLPLGSHSEEHPTQQGLA WLIPLWVDRDPEVRFTSLGLGSALTTLTGCVALANSQCQNISGGLWGTVVNILLDQSECSMVRRESQHHVDVAKVYHLHPPPEW WPKLYLGPLDHSRELRSSVLECMEQRLEVTLGTTYPFVSPISKFIQAVTTKCLR LGASRFSVCLAGLSAAPEQKIHPPTTQQFQQLPHD SVGFLQFSLHPKGNFGSGISSPD RSGDASHYSYPSLWQIRGTSRVKKQTWGSGLNKKWGIHKVQPQRLMMQNDTDEESI
21145	51513	A	21272	1	987	
21146	51514	A	21273	180	466	ARGSERAAASFASMYEGKKT KNMFLTRALEKILADKEVKKAHHSQRLKACRVALEGNKAETE KQSPPHGEAKAGISTLPVVKSTNFIEADKYF
21147	51515	A	21274	1	1224	
21148	51516	A	21275	251	5986	SCRCPRLQSPSTSTPFSLLFLP LLLLPPSSRWEPRVGRAAASFSA SMYEGKKT KNMFLTRALEKILADKEVKKAHHSQRLKRS/CGRV ALEEIKAE TEKQSPPHGEAKAG SSTLPVVKSTNFIEADKYFLPF ELACQSKCP/RIVVSTSLDCLQK LMA YGAL*LGNA PDSTTPGKKL IDRIETICGFCFGPQTDEGVQL QHKKALLTAVTSQHIEHETVL QAVRTCYNIYLASKNLINQTTA KATLTQ
21149	51517	A	21276	46	214	KLRLTTTSVYAI PNRRRYDGFK LVQSCIFI*NFRS*DLRPPQYMPF LIEGGM TVSNSCRAAFSFTSLC RHRFSEAWLQNTNTGGFGSTF
21150	51518	A	21277	306	616	
21151	51519	B	21278	47	927	

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21152	51520	A	21279	660	890	GGKITASGSPVPRPSGA*ALPSG RCSTPRTSSCPRLPEPPGL/PSP PSAPANTTPDDSHAAP*GTRAH THRPPPH/TATPSRPPPTSPPVAT RTAPKAPQ/HHP/PTSCPTQRPT DSPSVHEPSQPLATQHSQTPI*P VIVTQ
21153	51521	A	21280	3	213	
21154	51522	A	21281	349	2616	TTAMAHRKLFESVGSGMLDHRV RPGVPVHSQEPESDMELPLEG YVPEGLELAALRPESPAPEEQE CHNHSPDGDSSDYVNNTSEEE DYDEGLPEEEGITYYIRYCPED DSYLEGMDCNGEELYLAHSAHP VDTDECQEAEEWTDASAGPH HGHEAEGSQDYPDRQLPIPEDE PSVLEAHDQEDGHYCASKEG YQDYYPEEANGNTGASPYRLR RGDGDLEDQFEDIDQIVAEIKM SLSMITSITSAFEASPEHGPEPGP EDSVEACPPIKASCSPSRHEARP KSLNLLPEAKHPGDPQRGFKPK TRTPPEERLKPHEQVCNGLEQP RKQQRSDLNGPVDNNIPKTK KVASFPSLVAVPGPCEPKNLID GIIFAAANYLGSTQLLSERNPSK NIRMMQAQFAVSRVKRMQKA AKIKKKANSEGDAQTLTEVDLF ISTQRIKVLNADTQETMMDHAL RTISYIADIGNIVLMAARRRMPR SASQDCIETTPGAQEGKKQYK MICHVFESEDAQLIASIGQAFS VAYQEFRLRANGINPELSQKEY SDIINTQEMYNDLLIHFNSSEN CKELQLEKHKGEILGVVVVESG WGSILPTVILANMMNGGPAAR SGVKLSIGDQIMSINGTSLVGLPL ATCQGIHKGLK*PDHR*SFNIVS CPPV/TPRFLYSKRPDLYQLGF SVQNGHICSLMRGGIAERGGR

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21155	51523	A	21282	20	771	TTPNKQHMMQTRAGSAWYLR SRGCSQGAPQKASSGSGSSW NRSVATVPGIVLGWRRPELLSE RGCAEARGAGVAGRQLQLTG VQGKSVVRGRLLGRREWCR GGGAAPRPTAGTPVPRRPGTR AGPEEGEGAGAGARAAPEPRP HALSPPAFGADGQLRPLLLTS LRAHHPRGGLLLTSPGTHQPR RGRQGTTPPASPSA/PEEGALP GVLLP*PPSPSP/SESPPHPPG GGALAVTRRTAA
21156	51524	A	21283	1615	1985	LGSTRQAAPGQLRGHQAPAPN SDATAGQGRCCRSAD*GWGSR EQI*ALPLPSGPAPLLPPLL PVPPSPPPSPSPPLPP/GPP* PPLTFSVVTGGGLWCPHHRKSL NPTSGVNEY
21157	51525	A	21284	3	501	
21158	51526	A	21285	1	2646	
21159	51527	A	21286	31	319	VIQDLHVPPREESAEQVDDPPE PVYRT*RGSPGLHRAPLQPPF PARCGRRTRTRAPGAPTTTTQT RELPPGSRPLRLRVPPAQPPPL PRWTAT
21160	51528	A	21287	3	147	
21161	51529	A	21288	20	600	PVTPRRITLPAWLSVSPALPLP* PHPPAGLVMSARTSRCSTPTTS LRSSG*GWRTPGSHSTIQTPT LFDGSCPRSLPLEASINPARM VTPQRPALQRRRSQQSWMRL GAGRKSLLPQLL*GPRPWTRQG CSIAPRRQTRESGSRSTGVPPG LCWRVAS*HSSRTQRRLQAA* GSLPSFPPLSTQWS

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21162	51530	A	21289	383	1800	TCSTQTSLRNP PRRPRAASLPQT CSRSRPSRAHSLTGRPPRFQSQ MPSRSPCC*IC*NIRIDLCGS/TH SDGRFELVFSKKLALRASSQD EAE DWLDRVREALQKVRPQQE DEWVNVQYPDQPEEPPEAPQG CLSPDLLSEPAALQGTQFDWS SAQVPEPDAIKESLLYLMDRT WMPYIFSLSEALKCFRIKNE KMLSDSHGVETIRDILPDTSLG GPSFFKIITAKAVLKLQAGNAE EAA LWRDLVRKVLASYLETAE EA VTLGGSLDENCQEEKNNTK HTTARNAFEENDFMENTNMPE GTISENTNYNHPPEADSAGTAF NL RPTVKQTETKWEYNNVGTD LSPEPKSFNYLLSSPGDQFEIQ LTQQLQSLIPNNVRKLIHVIR TLKMDCSGTHVQVTCAKLISRT GHLMKLLSGQQEVKASKIEWD TDQWKIENYNESTEAEQSEQKE KSLEAASGTQDGVHVQEP RPQ APSPDLQQPVESTSSQQPSSTV SETAREVGGNGLQKAQAHDG AGLKL VVSPTSPPQVCKLWW SAGLHTPPVTSGLTGVGLQGPQ QRFPKFPDFHPL EISCGKVA
21163	51531	A	21290	2	667	
21164	51532	A	21291	84	377	RMGKHCFENLLFRDGKAQRAC MGYTVCHSHIVGSGQKCWPA WPQVNLQPSRHQQVCCSLPRC AKCKTVFHQSCQAVVKKGCPR CAR*RYQQQNVFA
21165	51533	A	21292	2	1168	FVLPVVS GRE TASSARLRGCR SREPPSPRSSRLVSCDSLREQ REWRCPQWWRMDWTPRLPSR HIISELEHLTFVNM DVGRCAW LRLALNNGLM ECVLKL LQ/EQ ARLREYYQPTALLRDAE GEF LSFLQGLMSLSFELSYK SAILNE WTLTPLALSGLCPLSELDPLSTS GAELQRKESLDSISHSSGSE DIE VHHS GHKIRRNQKPTASSLSLD TASSQLSCSLNSDCLLQENG KSPDHCEEPMSYDSDLGTANA EDSDQSLQEVLLFESKAQAASG TQDGVHVQEPHPQAPSPDLQ QPVESTSGQPSTVSETAREV GGNGLQKAQAHDGAGLKL V VSSPTS PNSSMIQSTRPVHFCIV STKHCTWEKVGMD E

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21166	51534	A	21293	263	813	
21167	51535	A	21294	130	1094	NQPHRTKGCPNSSTCEKNGSLT CDFMQVPLEMGKLRPEGERRV QDRDSNPSPSAGLFQARWS* PPRPSFLLPAGKRRGCDGGGRG GGRVRAGGAPLRVHRQGRAPP QSTEHWVHVRKPGGRPFYLP AQYVRELPAIGNPAADAPPAPP IGTRSP* AARLRLPVRERGGSG PQRPPSGAPRRGQLPVRPCAAR RREP/AAAAWRPACPPACTCGP GARAARAVPGRPDARRRLASR RQPRKQRQLQGLQRSGLLGVP AAPVAQRLRRLRGHPGGTRP AAVGDREAGTTPGAAGRLAE DSARREPGLEENHSAQRRRA
21168	51536	A	21295	2	3676	
21169	51537	A	21296	432	3453	DLAGEVLLCGGAADYGTGLGFS SPAQVEANRGALCSSIERGHIIS ELEHLTFVNTDVGRCRAWLRL ALNDGLMECYLKLLQEQAARL HEYQPTALLRDAEEGEFLFS LQGLTSLSFELSYKAILNEWTL TPLALSGLCPLSELDPLSTSGAE LQRKESLDSHSSGSEDIEVHH SGHKIRRNQKLTASSLSLDTASS SQLSCSLNSDSLQENGSKSP DHCEPMSCDSDLGTANAEDS DRSLQEVLLFS
21170	51538	A	21297	64	2996	LCPPAQPAASQPQVELPAGWPQ PHALPLPHDRAQHLGCAHP GRAKPELQHHDCACAAQPHI PVRQPYQHPDPLCPRRPACP ALPIHGRQLLQEPLQAGTGGG PGCPPWPGQPHPPVTQVQQPHC GAPQPAFQPGVS AVVLRGRIVK LAPEDLANLTALRVLDVGGNC RRCDHAPNPCMECPRHFPQLHP DTFSLSRLEGLVLKDSLSWL NASWFRGLGNLRLVLDLSENFL YKCKITKAKAFOGLTQL
21171	51539	A	21298	1	320	PVRTPPPAFSPKLTLRIMSLHQF LLEPNCGRPQLCRGTMARKPAP RKH*KHISRQCRVVLFEYKIGES VGFFKAVIFLVFLRFHSILDQS FSLSSLLWKIVTLT
21172	51540	A	21299	1	443	
21173	51541	A	21300	1	1059	

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21174	51542	A	21301	116	1559	PRTARPSCAHARTVRAVATRRR RVHFRDLSAAPSGLSVLRPRPT EPVRVDCPESANPPVARPDSP DPRMFELLAASDARINGPFCAP RVLLAPLLGAFVTVSKIISKIAL SPK*SRRSHLLRRNGSQWVKV HVELKEHNGHITGIDWAPKSD RICH/CLGADRNCMLMVWS\QK\D GVWKPMPG*FLRNLI GGGNFL* KWVPPRRTKFGCGSGARLISV CYFESENDWVWSKHIKPIRST VLSLDWHPNNVLLAAGSCDFK CRVFSAYIKEVDEKPASTPWGS KMPFGQLMSEFGG\SGTG\GW VHGVFSFASG\DRLGWGSATD STVSVSA*CLQKVQVSTLKT FLAAP*VVSFVSREPASGLPAH DC/CPMLFNYG*PRAALTFRLP KLDIPK\QSIQRNMSAHGNAFG NMADKRATTED\RTAL\ETLH QNSITQVLYLLRWKQD\CRKF CTVTG\DGEPTWIWFDQDPRSL PSQGLRIM

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21175	51543	A	21302	1	2223	MKHYTRVQSSISPPAERQETHA WASPAVTSLESAACHELQEAD LSELSYPRIVSSSLQYYVAQG GSFPCFGMPWNFISGGAESTNA VISFANATTAVPMAVLSRRESS LANNPVGVNYSALPENENVGP EMPERPANSSKNSTETANYPTL MGNYNGQNTASLSVFIPPYFAE KIILTEMPGTETNVENNSQTV YYPALSGNTSAPPYPASSYLPTS NFVLERVAEMPETAGTNVKN TQTVNYPSSGRGRSQGNASLS LSIPPKFGIERHLCFLVLAIRSK AAMNNIYHIGFV*TQAFISLRY/ MPKSAVAGSYGNALQNVLHIE MLFKTESGPQMSYGTMSYS MKNNCDDQDDASACLTPDFA LLPLNILVKVDNTNTNSVNTMN RSTLLDSDSGQDSSSSVCIPP YGYLGDPKRNVRLKIHLLAV QNMAKPKQAACYLVRILFSKEI LISSSVDIHLKDSQSLDPNKMA ALREYLATTFPTCDLHEHGKD WQDCISGINSMIYCLCSEGKSTP KTVRKNNKRTNRVASASADR DQGRDGGEGCSWMFQPMNN SKMREKRNLQPNNSNAIPEGMRE PSTDNPEEPGEAWSYFGRPWRN IRMPCSVLTAKTKSCASLSAR YLIQKLFTKDLVLVQSNVYGNL KHGLCALDPNKISALREFLQEN YPICDLSNGRDWKSCVTSINS
21176	51544	A	21303	1	297	
21177	51545	A	21304	1	162	
21178	51546	A	21305	11	212	KGKNCVAIAADRRFGIQAQMV TTDFQKIFP/MGAQRLKFRNL YELKEGRQIKPYTLMSMVANL LYEK
21179	51547	A	21306	37	554	SSIKFGRSNPDYWIAPSRNLD AIMSIMSYNGGAVMAMKGN CVAIAADRRFGIQAQMVTRDF* KFFPMG*PACTPGMAGFAIDVQ TVAQRLKFRNLNELKEGRQIK PYTLMSMVANLLYEK/RDPDHL FETISQAMLNVDRAVSGMG VIVHIEKDKJITRTLKARMD

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21180	51548	A	21307	51	741	YTAIMSIMSYNGGAVMAM/KG KNCVAIAADRRFGIQA/RLTTN FQKIFPMGDRLYIGLGGASPLD VQTS/VAQRLKFRAEPVMS*RE GRQKPYTLH*AMGGQPSLL*E KVFGPLTYTEPVHLPGLGPERP FKALSICFSKTLIRVGPMDLN DFCGSSGNLAPNKMVG/MCESL WGGPTWDPDHLF*KPFSQGHG *MLWDRDGS/VSGMGSSLFHIE KDKIPRTLKARMD
21181	51549	B	21308	150	404	
21182	51550	A	21309	199	395	
21183	51551	A	21310	100	182	SFLFWIKR*SFPDALYFSSKSGA CSCN
21184	51552	A	21311	203	289	KCLALDIALATRRSAI*FPSVKG PGRGV
21185	51553	B	21312	166	411	
21186	51554	A	21313	232	317	KCPALDIAVATRRSAI*FPAVKG PGRGV
21187	51555	A	21314	129	278	FYSSVSGVSSKDDRRFGCSGYS AAVISFRQC*SQLPGCSATYQR ESTFS
21188	51556	A	21315	789	962	
21189	51557	A	21316	477	599	
21190	51558	A	21317	86	577	ATEPLAPSERREVSIPLVPAPL PPPPPPVPSRTRTRPWRP*AC FPMTLAASCGRTPSPWPSQQPIP QPAPVG/PGNIKTLGDAYEFAV DVRDFSPEDIIVTTSNNHIEVRA EKLAADGTVMNTFAHKCQLPE DVPDTAVTSALRKDGSLTIRAR RDPHTEHV
21191	51559	B	21318	312	466	
21192	51560	A	21319	886	1338	GFWQVIRALRGGEVHREGTSA PGRHRRRCGRSAWNRCTAC SHVWPPRQMWPPQG/PDVAMKT GNIKTLGDAYEFAVDVRDFSPE DIIVTTSNNHIEVRA/REA/ERPD GTVMNTFAHKCQLPEDVDPTS VTSALREDGSLTIRAWKHPHTE HVQ
21193	51561	A	21320	3	605	KKLTPVVRSRVERDPRVRRGLR PHPVLSLRLPPGQGPAPSVDEPQ NLFHLPSGEKIPFLFLLLFTPP PRPPVLSRPRTRPWRP*ACFP MTLAAICGPTSPWPSQAPV/V AGNIKTL*DAYEFVVVDVRDFSP EDIIVTTSNNHIEVRPEKLAADG TVMNTFAQQCQLPEDVDPTSV TSALREDGSLTIRARGHPHTEH

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21194	51562	A	21321	3	450	SSAAEFVQEPGRGAPGSPSPISASR PGPAPRPASLPPSQMQAAALPE EIRWLLEDAEEFLAEGLRNENL SAVARDHRDHILRGFQQIKAVG GDIGQDSSDDNHSGLGLSLTY DAPFLSDYQDEGMEDIVKGAQ ELDNVIKQGYLEKKS*DH
21195	51563	A	21322	1	399	IGQDSSDDNHSGLGLSLTSDA PFLSDYQD/EG*VHQISDHWEK LRTWC*VYCDKGMEDIVKGAQ ELDNVIKQGYLEKKS*DHFFG SEWQKRWCVVSRGLFYYYANE KSKQPKGTFLIKGYSVRMAPHL RRDS
21196	51564	A	21323	3	1189	RLPARPPPDQGRPVVPLSRPAK CRLAVLPEEIRWLLEDAEEFLA EGLRNENLSAVARDHRDHILRG FQQIKARYYWDFPQGGDIGQ DSSDDNHSGLGLSLTSDAPFL SDYHDEGMEDIV*GAQELDNVI KQGYLEKKS*DHFFGSEWQK RWCVVSRGLFYYYANEKSKQK KGTFLIKGYGVRMAPHLRRDS KKESCFFELTSQDRRSYEFTATSP AEARDWVDQISFLKDLSSLTIP YEEDEEEEEKEETYDDIDGFDS PSCGSQCRPTILPGSVGIKEPTEE KEEEDIYEVLPDEEHDLEDES GTRRKGVDYASYQGLWDC YGDQPDLSLQRGDLILFLSKE YNMYGWWVVGELNSLVGIVPK EYLHHLPLKWKERWKPREIYFF
21197	51565	A	21324	47	225	NSHHVVRGRPCADSSSPSGDRG QPEAQAPDSSAPEHAQEPGRA AVKRPDL*SHMTRRP

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21198	51566	A	21325	66	725	AILILLSSSEGLWSSDQHRLVGV QDSPPQGS LGCYFSAMATSEQS VCQARASVMVYDDTSKKWVPI KPGQQGFSRINIYHNTVSNTR VVGVKLQDQV VINYSIVKGL KYNQATPTFHQWRDARQVYG\ LNFASKEEATTFSNAMLFALNI MNSQEGGPPSSQRQVQNGPSPD EMDIQRQVMEQHQQQRQEFEL ERRTSATGPILPPGHPSSAASAP VSCSGPPPPPPVPPPTGA\TP PPPPLPAGGAQGS SHDESFHV QDWPLAISWGPSLRRVPNGPED ASGGSSPSGTSKSDANRASSGG GGGGLMEEMNKLLAKRRKAA SQSDKPAEKKEDESQMEDPSTS PSPGTRAA SQPPNSSK\AGRKP WERSNSRGYFCVLD SVQNPAL WPKSPES*EPPSVSSL\SRMKPA GSIVSDMA\LD AFDLD\RMKQEI LEEVVRELHKGERKEIID\AIRQ EA*SGISRKKNLGHRAP\PTRTS FICSQRPLM
21199	51567	A	21326	301	390	
21200	51568	A	21327	72	415	
21201	51569	A	21328	395	697	RVMSPVHVNTICSPHPSDGDV IVPIVLSNERYHWPVLGWVGG VDCDEFFRVVLGEARLHLDGV AHQH*TKGTISNLFQ\ATSVSH LVEVVPQKLSWVI
21202	51570	A	21329	36	399	VEILTSKRAGDWFKEELRLGG LDHIVDKVKECVDHLSRDEDEE KLVASLWGAQRCLRVLSVTV HNPENQSYLIAKYDSQLIVSSA KALQHCEELI*QYNRAVDTLCL ADCKPLPHPTVL
21203	51571	A	21330	1	177	
21204	51572	C	21331	198	350	
21205	51573	A	21332	113	228	
21206	51574	A	21333	1	466	

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21207	51575	A	21334	1	4133	ASGCWRKEVVGAGSANGVEMV QGVPVQTPALTHRRKRRRRRRR RPSGGTQQALLPAPAVAASES* ARARPAALEAGREVAGPPSCPP NRASYLPKASLASLGSHPAL LSRARVPRPPAGRKEREVRKR VAKAPARLURGEYETGVKMTS RFAKTYSRKGGNGSKFDEFVS NKRTTLSTKWGETTFMAKLGQ KRPNFKPDIQEIPKKPKVEEEST GDPFGFDSDDESFPVSSKNLAQ VKCSSYSESSEA
21208	51576	A	21335	3	221	
21209	51577	A	21336	1	580	
21210	51578	A	21337	2	1095	ARGNRPPPPRTERGVLESRTS RHRAPRLPPAMPAPRAPRALAA AA/PASGKAKLTHPGKAILAGG LRGGUQICMTFPTEYVKTQLQL \DERSHPPRYRGIGDFVRQTVRS HGVLGLYRGLSSLLYGSIKAA VVRFGMFEVLSNHMRDA\QGR L\DSTRGLLC\SLGAGRGPRP*VV VCPMETIKVKFIHQDTSNPKY RGFFHGVREIVREQGL\KGT YQGLTATVWLKQGSNAIRFFVM TSLRQWAYPRGTTPNKAHEPF*I TWGSFGA\IASASQVSFGNTPLD VIKTRMPGPWRPHKIYR\NTWD \CGL\QILKKGGGSRAFYKGT V\PPGPGLAWDVA\VFV\YDEV G*SCFNKVWKNIGKA
21211	51579	A	21338	3	375	TACDSGAEDGPASRVSQMPTLP PPMPWNLPAAGVDCITTSGLAL TALFFKMEEANLASRAKAQELI QATNQILSHRKPPSSLGMTAP VPTSLGLPPGPSSYLLSGSPPLG GC\GSTPTTPGLAA
21212	51580	A	21339	51	3789	GRGHPHGGGELLPASPRGSP EGDQPGQGDPEEKEGRVVRGGA PDVPSAHALVPEQTVLGLHQ RVTAPQGRHGAH*LGDRDLHSG RPORPTHGWAPCLPYPTLGS G*RRHHGNPAGTPRSLFPFPEK ELEAPPPAPRFDIYDPFHPTDEA YSPPPAPEQKYDPFEPTGSNPSS SAGTSPSEEEEEEEEEEEEEED EEEEEGLSQSISRISETLAGIYDD NSLSQDFPGDESPPDAQPTQP TPAPGTPPQ
21213	51581	A	21340	286	393	
21214	51582	A	21341	64	610	

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21215	51583	A	21342	1	4433	MWAQLLLGMLALSPAIAEELP NYLVTLPARLNFPSVQKVCLDL SPGYSDEVKFTVITLTKDKTQKL LEYSGLKKRHLHCISFLVPPAG GTEEVATIRVSGVGNNISFEEL KKVLIQRQNGTTFVQTDKPLYT PGQQVYFRIVTMDSNFVVPND KYSMVLELQDPNSNRIAQWLEV VPEQGIVDLFSQLAPEAMLGTY TVAVAEGKTFGTFSVEEYVLS FLLLLSSVLPKFKVEVVEPKELS TVQESFLVKGGL*)
21216	51584	A	21343	3	522	ELRTWIEGLTGLSVGPDFQKGL KDGTILCTLMNKLQPGSVPKIN RSMQNWHQLENLSNFIKAMVS YGMNPVDLFEANDLFESGNNMT QVQVSLALAGKMGNTKNCASQ SGMTAYGTRRHLYDPKNHILPP MDHSTISLQMGNTKNCASQVG MTAPGTRRIHYDTKLGTDKCD
21217	51585	A	21344	1	1230	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCC RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKIN\ASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNNMQVR VSLLALAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSQGVFLGRQIYEPKY
21218	51586	A	21345	2	389	

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21219	51587	A	21346	1	1113	MHQEDLRAWYLDLGLPSHQN AQPTAWKQCQAPSPYTHQDMA LIPSPARWLSPEKEPKQGEVG EKSLLPDPTLPLTDPRLTGSTEQ AHAEGLAALMSALRVSHLQGR GGVVTLVDSQLGVIAVSSTQFN KGPSYRLADVQNRLLPKYDS QKEAELRSWIKGFTGLSIRPDFQ KGLKDGIICTLVNKLQPGSV KINVASV*NWH*LENL.SNFLKA MVSYGM/NPVDLFEANNLFESG NNMQVRVSLALAGKAKTKGL RSGVDIRDKYSEKQNFDDTTM KASQCVRILQITNKCASQSGMT AYGTRRLHYDPKNRILPPMDNS TISLQMGTNKCAQVGMTAPG TQRHIYDTKLIDKCESSMSL
21220	51588	A	21347	353	1260	SCWCLKLALAVSST/QFNKGPS YRLADVQNRLLFKYDSQKEA ELRSWIKGFTGLSIRPDFQKGLK DGIICTLVNKLQPGSVKIN/AS V*NWHQLENL.SNILKAMVSYG M/NPVDLFEANDLFEAGNNMQ VRVSLALAGKAKTKGLQSGV DIRDKYSEKQNFDDTTMKARL CVIRLQITNKCAQVGMTAYVT RRHLHYDPKNRILPPMDNSTISLR MGTNKCAQVGMTAPGNQWH IYDTKLIDKCESSMSLKMGY TQVANHSRQVFLGRQIYEPKY QPGGPVAHGAPSAAGNCPGGE
21221	51589	A	21348	3	530	
21222	51590	A	21349	1	853	MPESWLAAPFPYGDIKKVVGL QLKEGLHQNLTMQDSIQIFDFQ LPGLLRPSSVLWTLKPYHTAGL ASDRDSYKILACMPCMFGRSR SPLRDIKSHQADLELVKNSLD TIHRLESELKKQSKIQSQMKVE KAHLEEEIAELKKSSQAQDKAKL LEMQESIKDLAISIRADLANKLA EEERAKKTSAGAFGP/LIAQAN SRDEGTATITQLELERDVHQRE LKDLTSSLQSVKTKHEQNIQEL MKHFKKEKSEAENHIRTCLKVPL LNPDDTEGIFLVAHEVNKA

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21223	51591	A	21350	1	652	NTSLINTKKKLETDISQIGEME DIIQEARNAEEKAKKAITDAAM MAEELKKEQDTSALHERMKKN LEQTVKDLQHRLEAEQALAK GGKKQIQKLEARVRELEGEVES EQKRNVAVKGLRKHERKVKE LTYQTEEDRKNILRLQDLVVDK LQAKVKYSYKQAEAEQSNV NLSKFRRIQHELEADFRADIA ESQVNKL RVKSREVHTKIISEE
21224	51592	A	21351	21	5868	PAAMSSDSEMAIFGEAAPFLRK SERERIEAQNKPFDAKTSVFVV DPKESFVKATVQSREGGKVTA KTEAGATVTVKDDQVFPMPNP KYDKIEDMAMMTHLHEPAVLV NLKERYAAWMIYTSGLFCVT VNPYKWLVPVYNAEVVTAARG KKRQEAAPHIFSISDNAYQFML TDRENQSILITGESGAGKTVNT KRVIQYFATIAVTGEEKKEEPA SGKMQGTLEDQIIANPLLEAF GNAKTVRNDNSSRFGKFIR
21225	51593	A	21352	54	399	
21226	51594	A	21353	441	1585	VPPMGGGPPFVGPVGFPGDRS HLDSPEAR EAMFLRRAAVAPQ RAPILRPAFVPHVLQRADSALSS AAAGPRPMALRPPHQA LVGPP LPGPPGPPMMLPPMARAPGPPL GSMAALRPPLEPAAPRELGLG LGLGLKEKEEAVVAAAAGLEE ASAAVAVGAGGAPAGLAVIGP SLPLALAMPLPEPEPLPLPLEVV RGLLPPRLRITELSLRPRPRPR PEPPPGMLMALEVPEPLGEDKKK GKPGIEHRCIATA/AQGASWE DPPTCWKWD AE*LSRVFGDL GNEVND*HLGHAASARFPISL KAKVIR*QSAQAPKGYG/FVS FKDPISDYVRPMREMNGKYVV LAPPIKLRKSMWKDRNLDVFR KKQKEKKKLGRL

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21227	51595	A	21354	1	1122	MPGGKIGFLIEKGATEQSSTGN DFDELREEGGRRSNYSLEQEDI QTKGKEVENFEKNLEECVTTIS NTEKCVKELMELKTKARELRE ECRSFRSQCNQLEERVPAKDE MNEMKREGKFREKRIKRNEQS LQEIWDYVKRPNLPLIGVPESD RENGTKLENTLRDIIQENFPSLT RRGQPFRIEMENTENAPKDNLLE KEQLPRHNNCLELTQEEPAWD LQFDLLDLNDISSALKHHEEKN LISLLPQRGADYLSFRSHFQKNF VCVENCSLQERTVTGTVKVKN VSFEKKVQIRITFDSWKNYTDV DCVYMKNVYGGTDSDTFSFAI GLPPVIPTEQKIEFCISYHANGQ IFWDNK*WGRKYKNCVIVQW
21228	51596	A	21355	71	1124	GPPLCLMSCTRMIVLDPRPL TSSVMPVDVAMRLCLAHSPPV KSFLGPYDEFQRRHFVNKLKPL KSCLNIKHAKSQNDWKCASHN QAKKRVPVAFADSKGLSLTAIHV FSDLPEQPAWDLQFDLLDLNDI SSVALKHHHEEKNLILDFPQPST DYLSFRSHFQKINFCVLAENCSL QERTVTGTVKVKNVEF*GRKF QIRYHFSDSWEKLTLDVDCVY MENVY/GVGTGSDTFSFAIDLPP VIPTEQKIEFCISYHANGQVFW DNNDGQINYVIVHVQWKPDG VQTQMAPQDCAFHQTSKPTL ESTIFGSPRLASGLFPEWQSWG RMENLRLLCDELSNNVTGLDLS YSPMQS
21229	51597	C	21356	204	273	
21230	51598	B	21357	1	1062	
21231	51599	A	21358	1	397	QRPI*PTKPIGQRVSKGHQP/TR HDFDTQFLAAHETISRLVGFS AQVQYLLDLIKKIDPSKLFNEER LIDKTKVTYLLKWLPESESLFLA SHASGHLVLYNVSHPCASAPPQ YSLKQGEFVSVAAYNDLF

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21232	51600	A	21359	71	1736	FRTSLKDVWHTPLTPFLPPLKSI DLNKPDKRIYKGTQPTCHDFN QFTAATETISLLFGSFSRRTWA WCGPAV*AGPCPTAFLGTLRLI DKTKVTYLKWLPESESLFLASH ASGHLYLNVSHPCASAPPQYS LLKQAWGFSFYAAKSKAPRNP LAKWAVGEGPLNEFAFSPDGR HILACVSQDGLRVHFHDSMLL RGLMKSYFGLLCVCWSPDGR YVVVTGGEDDLTVVWSFTEGRV VARGHGHKSWYNVAVAFDSLY TTTAAEEAATAAGADGERSGEE EEEEPEAAGTGSAGGAPLSPLP KAGSITYRFGSAGQDTQCLW DLTEDVLYPHPLARTRLPGT PGTTPPAASSSRGGEPPGGLPR SLSRNSLPHPAGGGKAGGPGV AAEPGTPFSIGRFATLTLQERRD RGAEKEHKRYHSLGNISRGSG GSGSGGEKPSGPVPRSLDPAK VLGTALCPRIHEVPLLEPLVCK KIAQERLTVLLFLEDCHITACQE GLICTWPRPGKAFTDETEAQT GEGSWPRSPSKSVVEGISSQPG
21233	51601	A	21360	2	467	LMQ/NWDAAMEDLTRKETID NNSVSSPLQSLQQTWLIHWSL FVFFNHPKGRDNIIDFLYQPH MLADKLNMTPEEAERWIVNLI RNARLDAKIDSKLGHVVMGNN AVSPYQQVIEKTKLSFRSQML AMNIEKLNQNSRSEAPNWAT QDSGFY
21234	51602	B	21361	1	909	
21235	51603	A	21362	3	3617	YWKERTQKVIPRATENHGLKS YLQKTKLSIDEAAFLPDNLK SELLELLTHWLQGVPMTPSLG SINLLGWLTELRETHYICWFIV KETTRDTDEEMCRTEPALACSI SHYDDGCIQMLNTPETLQCSA KDSKHFIPKECSIPGENRPPSDT GKTVKFLSLNIFNLQLAESTDA EQRANCILRCFLTETTLNYQKIL SVRPGTKLATASHVSLGLQTP PFGLAQHLIRPHAFAPKDPLTS FTERNRSG

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21236	51604	A	21363	75	2141	GPRLGLTTMWHEARKLGRRLR GLLFDSRRKAERRREYEEKIKK DPAQFLQVHGRACKVHLDSA VALAAESPVNMMMPWQGDENN MIDRFDVRAHL\DHIPDYTPPLA HHHFSQNPQESDERKCNERYR GLVQNDFAGISSEQCQLYQIYIDE LYGGLQRPSEDEKKKLAEKKA SIGYTYEDSTVAEVEKAAEKPE EEESAEEESNDEDEVIPDIDV EVDVDELNQEVADLNKQATT YGMADGDFVRMLRKDEKEAE AIKHAKALEEEKAMYSGRRSR RQRREFREKRLRGRKISPPSYAR RDSPTYDPYKRSPSESSSRSR SRSPTPGREEKITFITSFGGSDFE AAAAAAAAAASGVTTGKPPAP PQPGGPAPGRNASARRRSSSS SSASRTSSSSSRSSSRSRGG GYYSRGRHARSRSRSWSRSR SRRYSRSRSGRRHSGGSRDG HRYRSPPARRGGYGRRRRSR SHSGDRYRRGGRLRHSSSR RSSWSLSPSRSLTRSRSHSPSP SQSRSRSRSPSPSPSPAREKL TRPAASPAVGEKLLKTEPAAG KETGAAKVPKLTPEKLLKLRM QKPLNRQFKADKKAQRKR*S QAEHERQERKDEA\RAMARKIG MKERER\REKEREWEWQYSRQ SRSLP/RDYSREYSSRRRSR SRSPHYRH
21237	51605	A	21364	1	609	
21238	51606	A	21365	1	1227	
21239	51607	A	21366	1	1626	
21240	51608	A	21367	370	4388	GFIWNRITPTEDGQTRELQNLH GLSAPVPRGRGKKVKQTQTSF DIQKAEWLRYNPEQLQDEG YKKHIKHHCNKVLLRVRLYY LKQEVIGNECQKVFDDVDASDI DVWVPEPDHSEVPAEWDFD ADKSLIGVFKHGVEKYNTIRA DPALCFLERVGKPEKAVAAE QRANDYMDGDVEDPEYKPAPA IFKDDIEDDVSSPGDLVIADGDG QLMEGDKVYWPTQSALTTRLR RLITAYQRTNKNRQIQIQ

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21241	51609	A	21368	1	530	AEADAIHQMVREGQRRRRQQQ AATSESSQSEASVRREESPM DV DQPSPSAQDTQSIASDGT PQGVE KEKEERPPELPLLEQLALDEL WDMLEGECLKELESHDQHAVL ETHRTVLNQILRQSTTHLADGP FAVLVDYIRVLDFDKRKYFR QELERLDEGLRKEDMAVHVRR DHVF
21242	51610	A	21369	1	217	
21243	51611	A	21370	274	599	PVSKESRVAPLCDFCLPFIQSES SQSEASVRREESPM DV DQPSPS AQDTQSIASDGT PQGEKEKEER PPELPLLEQLSDELWDMLEGE CLKELEESHDQHAVLVLQPA
21244	51612	A	21371	2	731	TPTPTAPTPTVTSAPALVAATAI STIVVAASTVTPTIATITTVSI SPTTKGSKSPAKVSDGSSSTD FKMVSSGLTENQLQLSVEVLTS HSCSEEGLEDAANVLLQLSRGD SGTRDTVLKLLNGARHLGYT LCKQIGTLAELREYNLEQRR AQ CETLSPDGLPEEQPTTKLK GKMQRSPFSGLSASSIQA AVR QLEAEADAIHQMSSESSQSEASVR REESPM DV DQPSPSAQDTQSI A
21245	51613	A	21372	208	423	LYVKPTAPPK*AL*SEGLE*MSP QCLWQGLQQGAQKKLLEVP NKLTQTIN*PANVLILA*GGSSS YRPPHK

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21246	51614	A	21373	1	2002	MPQLPGISLPEGVDPFLAALPD DIRREVLQNQLGIRPPTRTAPST NSSAPAVVGNPGVTEVSPEFLA ALPPAIQEEVLAQQTAEQQRPE LAQNASSDTLMDPVTLIQTLP DLRRSVLEDMEDSVLAVMPPDI AAEAQALRRREQEARQRLMH RLFHSSSTSALSAILRSPAFTSR LSGNRGVQYTRLAVQRRGGTFQ MGGSSSHNRPSSGNSVDTLLRL RGRLLLDHEALSCLLVLLFVDE PKLNTSRLHRLVLRNLCYHAQT RHWVIRSLLSILQRSSESELCIET PKLTTSEEGKSKSSCGSSSHE NRPLDLLHKMESKSNQLSW/L SSVMDAALGFR/TNIFQIQSG GRKHTEKHASGGSTVHIHPQA APVVCRHVLDTLIQLAKVPFPH FTQQRKTETNCESDRERGNKA CSPCSSQSSSGICTDFWDLV LDNMNVSRKGNKSVKSVPSA GENKVSEAQANSAGSASTTTA TSTTSTTTTAASTTPPTAPT VTSAPALVAATAISTIVVAASTT VTPTTATTTVSIPTTKGSKSP AKVSDGGSSSTDFKMVSSGLTE NQLQLSVEVLTSHSCSEEGLED AANVLLQLSRRPARMLAMHW PSLYNVETEKTLALPNLIALQTS PFASGVIAKSSDRLINQCAPV WRWR
21247	51615	A	21374	1	6384	MVSPPEKGTGHSIRNWLDELKDL PILHAYSNLPSPAVDLAIHSSK EGRMDWTEGQVTGPVVSAAAT SGAGSTTSGVVSGSLGSRINYI LRVLGPAACRNPDIFTEVANCC IRIALPAPRGSGTNGSGSRIPRES APEMATAESLVEELSEDAAGG ASPGVELPALGCSELPAAEVSP TASSKNLETICEYAYCMAMLP TGGLDPYKRGFLDLTQERIWTD IPSPGNIPTHPLMVRHADHSS LTLGSGSSTT
21248	51616	A	21375	1	1356	
21249	51617	A	21376	80	608	

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21250	51618	A	21377	298	1374	GRGDWPDLNLQTATASWTPR WCLLRKPVEAPSGGATEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQNGQSV DVEETLPS EPENGALLRSERYQGPRRRACS ETLAESRTAVLQQRRAAQLPG GPAAAGEQRASPSKARLKEFLQ QCDREDLVELALPQLAQVVTV YEFLLMKVAESLGITEFLRKKEI HPDNLGPKHLSRDM DGEQLEG ASSVKREREAAEEGLASVKRP RREALSNDTTESLAANSRGRE KPRPLHALAAGTIVSQEEDIVT VTD/GRGACLRMGPLEGVPLEA VESVVTVEPEPSQ*NGVRY*NS SDFIQRRSMASNVYFSNVNIAQ MNLFLIKNNVFL
21251	51619	C	21378	354	530	
21252	51620	A	21379	1	1272	MVLSEKASGTLRGCTEERTLS LTSGLSMPADPCEGGARSCLV TESARGGLQFLQQCDREDLVEL ALPQLAQVVTVYEFLLMKVAE SLGITEFLRKKEIHPDNLGPKHL SRDM DGEQLEGASSEKRERE AAEEGLASVKRPRREALSNDTTE SLAANSRGREKPRPLHALAAES HTTTVSGGNGSVFQAGPQLQA LANLEARRGSIGAAALSSRDVSG LPVYAQSGEPRRLTQAQVAAPF GENALEHSSAQDTWDSLRSPPGF CSPLSSGGGAESLPPGGPGHAE AGHLGKVCDFHLNHQQPSPTS VLPTVEAAPPLEKILSVDSVAV DCAYRTVPKPGPQPGPHGSLLT EGCLRSLSGDLNRFPCGM EVHS GQRELESVVCLSAETMAF*NFP MGAIMSYCLRD/RSRFLFRLPM GLSCPLQVQ
21253	51621	A	21380	90	204	
21254	51622	B	21381	13	423	

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21255	51623	A	21382	1513	2405	RRAQYRRWRRRWRRRHREPE KEKRRHSRSHSRRTTLIF* TQSRSRRE*LHCQSRSR**FKSPRQ RRSHSRERGRSTARHYRST/KER QQRSSRSGTRSPKKSRCPKRKL SLSPSPGKHKKKKKDKERNRY ERERSTSKKKSKDREKDKERKS ESD TDV K V T R V Y D E E E Q G Y D T SQEIEMHADNPAAIQTVVLQRD DLQNGLLSTCRELSRATAELER AWREYDKLEYDVTVTRNQMV EQLDHLGEVQCWCYRTEKYV MERGPEQDPKRAFLDFVQERIQ GESAVQSESKFIKTVKK
21256	51624	A	21384	1	180	
21257	51625	A	21385	3	115	
21258	51626	A	21386	3	312	LPTALLRSTMALHSGRVLPGI AAAFHPGL/AA/ASARASSWW THVEMGPPDPILGVTEAFKRDT NSKKMNLGVGAYRDDNGKPY VLPSVRKFVTQTISGTGAL
21259	51627	A	21387	3	395	STMALHSGRVLPGIAAAFHPC/ LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLPSVRKAE AQIAAKNLDLLPLLNVCVSLSS HTVSPAQQGTRKEDILGFACC
21260	51628	A	21388	1	303	
21261	51629	A	21389	2	425	RPE*WKEIATVVKRNLFALFD MAYQGFASGDGDKDAWALHH FIEQGINVLCQSYAKNMGLYG EHVGAFTVVKDADEAKRVES QLKILISPMYSNPLNGAQIASTI PNTPVGLKVVVMGGLHDHPQ VMSDEKETTLRA

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21262	51630	A	21390	3	1508	HEAGAGSLCVCAPRPLLRPAAA HCPYSVRSTMAHACTSGRVLP AAA\FHPGLAAAAARASSWW THVEMGPPDPILGVTEAFKRD NSKKMNLGVGAYRDDNGKAL PCCPSVRKAEGPRLPQKIWDKE YLPIGGALAEFCASAEALALGE NNRSLERVGRFVTVQTHFWEL GALRLGASFLQRFFKFSRDVFL PKPTWGETHPSFRDAG/MQLA QGYRYYDPKTCGFDTGAVED ISKIPEQSVLL/LHACG/HNNPTG VDPREQWKEIATVVKRNL AFFDMAYQGFASGDGDKDAW AVRHFIQGINVCLCQSYAKNM GLYGERVGAFTMVCKDA/DES KRVESQLKILIRPMYSNPPLNG ARIAAILNTPDLRKQWLQEVK GMADRLNGHAGLQLVSNLQGR EGSTHNWATHSPTKLGMFCF HRG*KLEQVERLKEFSIYMTK DGRISVAGVTSSNVGYLAHAIII QVTKYVSLVRGNGDNLVLSL
21263	51631	A	21391	1	184	
21264	51632	A	21392	70	253	
21265	51633	A	21393	1	351	VMEFYCQSCETAMCRECTEGE HAEHPTVPLKDVVEQHKASLQ VQLDAVNKRWGTLPKPPTGCL YLRPGLMASCQLTNQKASI/VD DIHSTFDELQKTLNVRKSVLLM ELEVNYYGLKHK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/546,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
21266	51634	A	21394	208	2546	WLHCMQQQRAGSKTAGPPICQ WSRMASVEGTNIPISLVVVGQNDK QFLICSICLERYKNPKVLPLCHT FCERCLQNYIPAHSLTLSCPVC RQTSILPEKGVAALQNNFFITNL MDVLQARTPGSNAEESILETVT AVAAGKPLSCPNHDGNVMEF YCQSCSETAMCRECTEGEHAIEH PTVPLKDVVVEQHKASLQVQLD AVNKRWGTLPKPPTGCLYLRP GLMASCQLTNQKASIVDDIHST FDELQKTLNVRKSVLLMELEV NYGLKHKVLQSQLDTLLQGQE SIKSCSNFTAQLNNGHTETEVLL VKKQMSEKLNELADQDFPLHP RENDQLDFIVETGLKKSINHNL GTILTTNAVASETVATGELRQ TIIGQPMSTVITTKDKDGELCKT GNAYLTAELSTPDGVSADGEIL DNKNGTYEFLYTVQKEGDFTL SLSLYDQHIRGSPFKLKVIRSAD VSPPTGKRRVKSPGSGHVQK KAVKRPASMYSTGKRKENPIED DLIFRVGTGRNKGFTNLQGV AASNTGKILADSNNQCVQIFSN DQGFKSRFGIRGRSPGQLQRPT GVAVHPSGDIIADYDNKVVSI FSSDGKFKTKIGSGKLMGPKGV SVDRNGHIIIVDNKACCVFIFQ PNGKIVTRFGSRGNGDRQFAGP HFAAVNSNNEIIITDFHNHSVKV FNQEGEFMLKFGSNGEGNGQF
21267	51635	A	21395	1	591	
21268	51636	A	21396	3	608	LEGDQRWINTVSQALHLLSTLY GPFPCNYGIGRCAKMAVELWR NLEEEEDGETKGRRPEIGHIFLL DRGKLCPAFLSSFSPPRRHGNME GVVAKLS*S*GCESQL*GAWV LGPMSIKAALGHAV*KAGSGR TFMVRDLCPDVFVTALCSQV VYEGLVDDTFRIKCGKCYGPLH LGKMDGSSALAPATWGRVCGR DPHPE
21269	51637	A	21397	268	402	
21270	51638	A	21398	139	452	

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21271	51639	A	21399	1	2497	MGPVAAPLGLSLPATDGAHSV RGNSVLVPGLIPKDYRSKLTQ YLQSYGPEHLLTFSNLRRAGLL TEQAPGDTLTAVESKVSCLVTD KAAGKITDAFSSLAKRSNFRAIS KKLNLIPRVDGEYDLKVPRDM AYVFGGAYVPLSRIIEQVLER RSWQGLDEVVRLNCSDFAF DMTKEDKASSESLRLILVFLG GCTFSEISALRFLGREKGYRFIF LTTAVTNSARLMEAMSELPGK KDLFIETDLMSPLDRIANVSLLK QHEVDKLYKVENKPALSSNEQ LCFLVRPRIKNMRYIASLVNAD KLAGRTRKYKVIQSPQKPYACE MVL EE EGIYGDVSCDEWAFSLL PLDVDLLSMELPEFFRDYFLEG DQRWINTVAQALHLLSTLYGPL SQT CYGIGRCAK\ MAYEFVEGT WEE EEDGRNPRARREGFG\HIF LL\DR\DVDFVDSTLLPKLVYEG LVDDTFRIKCGSVDFGPEVTSS DKSLKVLNNAEDKVFNEIRNEH FSNVFGFLSQKARNLQAQYDR RRGMDIKQMKNFVSQELKGLK QEHY\LLSLHIGVACESIMKKKT KQDFQE\LIKTEHALLLEGFNIRE STSYIEEHIDRQVS\PIESRLMC LLSITENGLIPKDYRSKLTQYLQ SYGPEHLLTFSNLRRAG\LLTEQ APGDNLTAVESKVSCLVTDKA AGKITDALSSSLAKRSQFRAISK
21272	51640	A	21400	1	216	
21273	51641	A	21401	2	270	
21274	51642	A	21402	1	600	SGRALHASWAAGVGAYSGRL RSDALEGESFALSPSSASDAEF DAVVGYLEDIIMDDFQLLQRN FMDKYYL\EFEDTEENKLIYTP\I FNEYISLVKEYIEEQ\LLQR\PEF NMAAFHHNITPSVPVCRHHKD EVAW*QYSAMLAPPTRFSWA F*RN VFGTYRGRKKEGRGL\DL SSGLVVTSLCKSSSLPASQNNL RH
21275	51643	A	21403	1	297	

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21276	51644	A	21404	1	1419	MGAPLLSPGWGAGAAGRWW MLLAPLLPALLVLRPAGALVEG LYCGTRDCYEVLVGVSRSAGKA EIARAYRQLARRYHPDRYRPOP GDEGPGRTPQSAEEAFLLVATA YETLKIVFPELKIVKELTTLMP SRAVWIIWSHKMSGGAGPEL DIGYVPVLLHMPKRIGSGMDTS RSTTVIPVEIRNKELIALLVKAQ DRQEEETNYKLRFNGLSYEVG YLVILQDEETRKDYDYMLDHP EEYYSHYYHYYSRRLAPKVDV RVVILVSVCAISVFQFFSWWNS YNKAISYLATVPKYRIQATEIA KQQGLLKAKAKSKNNKVQR RNS*VEENIIKNIKSKIDIKGGY QKPQICDLLLFQIILAPFHLCSYI VWHCRWIYNFNKIGKEYGEEE RLYIIRKSMKMSKSQFDSLEDH QKETFLKRELWIKENYEVYKQ EQEELKKKLANDPRWKRYRR WMKNEGPRLTFVDD
21277	51645	A	21405	1	1266	
21278	51646	A	21406	1	739	
21279	51647	A	21407	1	428	

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21280	51648	A	21408	99	2338	MPEEVHHGEEEVETFAFQAEIA QLMSLIINTFYSNKEIFLRELISN ASDALDKIRYESLTDPSKLDSDG KELKIDIIIPNPQEPYPGLWVDTG IGMTKADLINNLGTIAKSGTKA FMEALQAGADISMIGQFGDGFY SVANLVAKKVVVITKHPDDEQ YAWESSAGGSFTVRADHGEPIA VRGTQVILHLKEDQTEYLEERR VQEVVKKHSQFIGYPITLYLE KERKEKISDDEAEKEKGEKEE DKDDEEKPKIEDVGSDEEDDSG KDKKKTKKIKEKYIDQEELNK TKPIWTRNPDDITQEEYGEFYK SLTNDWEDHLAVKHFSVEGQL EFRALLFIPRRAPFDLFENKKKK NNIKLYVRRVFIMDSCDELVPEA YLNFIPIGVVDSEDPLNIFRKML QQNK/LWKVIRKNIVKKCLELF SELAEDKENYKKFYAFSKNLK LGIHEDSTNRRRLSELLRYHTS QSGDEMSTLSEYVS/RMKETQ MSIYYITGESK/EQVANSFAFVER VRKRGEFVVYMT/EPIDECYVQ QLKEFDGKKLVSVTKEGLELP EDEEEKKKMEESKAKFENLCK LMKEILDKKVEKVTISNRLVS SPCIGIKHKLGAQALIERDHE KPRALRDHPQGGIMMGKKAP *ESPDPHPHFVETRAGRKADAR QVMIRAVKD/LWVVLLV*NPP LLSSGFSLED/PQT/HTPNRIYRI
21281	51649	A	21409	1	426	
21282	51650	A	21410	1	1305	
21283	51651	A	21411	446	3180	VAVRLGSASQFPGARQLPRP PSWSSSIHPISTTGLSESTDSDS KSGLRGFSAYNPSSRIKSTTSS NSSDGAVTASNQDTGIPWVLV TGPITPPVNSPVESLQGSASFSSGF STPRGLVKGPTLPPDSNLT/SVSD YTWIFVRGPPIPNDLSQVSIQAP PTPSNTPECQYKGLPHPCPASP GVWYQDHLYPITFPQCRHKHL LHPITSPQCQGRRLPPQCLTLR GVQYKNLLHPVILSSCRHKDIL NLITLAE

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21284	51652	A	21412	24	667	MLPWLNCITTGVPWTPTSKRW LRNSKVCDCCKDTPSNAFSLLS VPPTTTSPASLAWWSGCARLLD LGSSSLMMSPTMASPACRPWL GQRWRLISGSWAWAIVPT*VP VPEPSWKNRAG*PGCSSYESPH MRRPTRPSASCLFWAPRASLA MHLMATSFVLLSSARITSEKA PLSGEGIHKVKNWNPSPASP FPMGVSVTAGPRTWMTLP
21285	51653	A	21413	1	304	RAQVLPARCYPGSTVSPLGFRG LPLPRGGSEIPRCATAATRP MPFLFYFLFQQH RPHHWHGGAAVPGFWTSAHPA CDVITYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGG/RLAAAAATRVLI*GGP QGPHHPAWSGHQGG* LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGK L FPEPVGTLCWLGPSALS GHHHF YDLSRTP
21286	51654	A	21414	1	7629	
21287	51655	A	21415	180	423	
21288	51656	A	21416	17	753	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRP HMPFLFYFLFQQH RPHHWHGGAAVPGFWTSAHPA CDVITYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGG/RLAAAAATRVLI*GGP QGPHHPAWSGHQGG* LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGK L FPEPVGTLCWLGPSALS GHHHF YDLSRTP
21289	51657	A	21417	17	1087	QAHTRRAGGRAQVLPARCYPG STVSPLGFRGLPLPRGGSEIPRC ATAATRP HMPFLFYFLFQQH RPHHWHGGAAVPGFWTSAHPA CDVITYHGFPSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGG/RLAAAAATRVLI*GGP QGPHHPAWSGHQGG* LHLPDG PRQAPGCARGCPYVAHCPT*LQ LAPYHVPGEGETEPPDQQTGK L FPEPVGTLCWLGPSG WIRCLLK NYRLPLDLEGLLGNAFDGHQ LLRPLIFCQDHLREGPIGRGDS QGEELPQLPSSLSIPYGFCDH CWTKD VDPPVTHPSGSRD GHMTQA WPKVVSPLATVIGH VMQASLLAL

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21290	51658	A	21418	3	1584	TQKNTAVRAHRLWGREGISKRK EGAGPTPQESRRIGARSGALMT RKGRGMQVEEELSETGKVVKQ HRVGEALRVVVLVWAGSLG/D RRGLVLGRRGYYGAVPAVEMP ARALLPRRMGHRTLASTPALW ASIPCPRESELRLDLVLPSSGQSF WREQSPAHWSGVLADQVWTL TQTEQLHCTVYRGDKSQASRP TPDELEAVRKYFQLDVTLAQL YHHWGSVDSHFQEVAKKFQ VRLLRQDPIECLEFSCSSNNNIA RITGMVERLCQAFGRPLQLDD VTYHGFPSLQALAGPEVEAHLR KLGGLGYRARYVSASARAILEEQ GGLAWLQQLRESSYEEAHKAL CILPGVGTKVADICLMLADKP QAVPVDVHMWHIAQRDYSWH PTTSQAKGPSPTNKELGNFFR SLWGPYAGWAQAGLLGNAFD GHQLLRPLIFCQDHLREGPPIGR GDSQGEELPQLPSSLSIPYGF CDHCWTKDVEDDPLVTHPSG SRDGHMTQAWPVKVVSPLATV IGHVMQASLLAL

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21291	51659	A	21419	837	2785	WTRMLFAVSCNDGECQNSNVI LFCDMCLNLAVHQECYGVPIPE GQWLCRRCLQSPSRAVDCALC PNKGGAFKQTDGGRWAHVVC ALWIPEVCFANTVFLEPIDSIEHI PPARWKLTCYICKQRGSGACIQ CHKANCYTAHVTCQAQAGLY MKMEPVRETGANGTSFSVRKT AYCDIHTPPGSARRLPALSHSE GEEDEDEEEDGKGWSSEKVK KAKAKSRJMKMKARKILAEKR AAAPVVSVPICPPHRLSKITNRL TIQRKSQFMQRLHSYWTCLKRQ SRNGVPLLRRLQTHLQSQRNCD QVGRDSEDKNWALKEQLKSW QRLRHDLEARLLVELIRKREK LKRETIKVQIAMEMQLTPFLIL LRKTLEQLQEKDGTGNIFSEPVPL SEVPDYLDHIKKPMDFFTMKQ NLEAYRYLNFDDFEEDFNLIVS NCLKYNAKDTIFYRAAVRLRE QGGAVVRQARRQAQKMGIDFE TGMHIPHSLAGDEATHHTEDA AEEERLVLENQKHLPVEEQLK LLLERLDEVNASKQSVGRSRRRA KMIKKEMTALRRKLAHQRETG RDGPERHGPSSRGS LTPHPAAC DKDGQTD SAAE SSSQETSKGL GPNMSSTPAHEVG/GEPQFCSP KRTRRQ/HGPPKRPPKPNRES QMTPSHGGSPVGP/RAPHHEFP ASAQAG*EPQFCSPKRTRRQLD
21292	51660	A	21420	I	2625	MENKITGYTTVDISQWHRKEHF EAFQSV AQCTYNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFS LWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFENMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKY YTGQDKVLMPLAIQRDSE DKNWALKEQLKSWQRLRHDL ERARLLVELIRKREKLKRETIKV QQIAMEMQLTPFLILRLK

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21293	51661	A	21421	164	1401	PPKGRGMQVEVEELSETGKVVK QHRVGEALRVVVLVWAGSLG/ DRRGLVLGRRGGYGAVPVE MPARALLPRRMGHRTLASTPA LWASIPCRSELRLDLVLPSSQS FRWWREQSPAHWSGVLADQV WTLTQTTEQLHCTVYRGDKSQ ASRPTPDELEAVRKYFQLDVT AQLYHHWGSVDSHFQEVAKKF QGVRLRLQDPIECLEFSFICSSNN NIARITGMVERLCKAQFGPRLIQL DDVTYHGFTSLQALAGPEVEA HLRKLGLGYRARYVSASARAIL EEQGGALWQLQRESSYEEAH KALCILPGVGTKVADICLMLAL DKPQAVPVDVHMWHIAQRDY SWHPTTSQAKGPSPTNKELGN FFRSLWEPYAGWAQATPPSLQ VLFSADLRQSRHAQEPKAKRRK
21294	51662	A	21422	751	2107	SSEHPRELHRIPISWAMSELKDC PLQFHD\FKSVDDLKVCPRYTA VLARS\EDDGIGIEELDTLQLEL ETLLSSASRR\LRVLEAETQILT DWQDK\KGDRRLKLGARDHVE FGAPPKHGKPKK\QKLE\GKAG HGPGP\CPGRPKSKNLQPKIQE YEFTDDPIDVPRIPKNDAPNRF WASVEPYCADITSEEVRTLLEEL LKPPPEDEAEHYKIPPLGKHYSQ RWAQEDLLEEQDGAARAAV ADKKKGLMGPLTELDTKDVIDA LLKKSEAQHEQPEDGCPFGALT QRLQLALVEENIIPMEDSPIDP MSGKESGADGASTSPRNQKPK FSVPHTKSLESRIKEELIA\QALL *AGDLLAKDSEDEVLAELRKR QG\EL\KALSAHNRTTKA\DLLR LAKEEVSRQ\LRQR\VRRAERE GMDAFRKIHGLPGRKRKNSPPK K\EKDQA WKNS*KEREHP
21295	51663	A	21423	107	331	

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21296	51664	A	21424	387	1071	NNPEWRTLIYVDKENGEPGTR VVAKDGLKLG/SGPSIKALDGR SQVSTPRFGKTFDAPTQPYLKL PRKALGTVNRITTEKSVKDPGD PSNKKQPKLFRPKKDGPEEGLL KAKKPLFPGLOD*CPPEIRKIPF PFNPS*TLRSF*PCPEEHPDCGTF PL*VGVLMIPLTREREL*KSW FQLGPPFHLWKDGLPPWGIPI LQFSFQGISVRTWGVLDLPPVCC DIDI
21297	51665	A	21425	480	1270	RSVKKVGAQRPGSGGWGNG EGWVPQATAPGWAYTHVLFY LFVTTPIISAALRADGFGDNPFY HCLVAEILPAPGKLLGKSTWPL EVHLSSRPQRSPHRLPEALLPFS LSQG/HCVVGYGIYYFIYSTWK GRTIYLEDIYVMPEY/RGYWAE AEAGVGAKHPTDPTVIPCPQSP AGVIF*SPSAQTIAIFCLFSTTG QGIGSKIHKVAEVALDKGCSQ FRLAVLDWNQRAMDLYKALG AQDLTEAEGWHFFCFQGEATR KLAGK
21298	51666	A	21426	182	797	LPFARPWDFGPRQRGSGWLPC GSREAKEGDCGDILRLIRVKT GPELAIEFKLFGSGERSVEEAL ESRLAFGDNPFYHLFW*AEILP APGESYWG/HCVVGYGIYYFIY STWKGRTIYLEDIYVIAGNIGV QGIGSQK*SKKVAAEVALGIRGC SPNFRLARPLD/WNPEGPWDLY KAPRSPKI*RKLEGWHFFCFQG EATRKLAKG
21299	51667	A	21427	224	490	QAGFISARNITWR*ANRRSTWR SYRRKSGRTANCPISPACSRC SAPIFIPKNGWWRAMVAPLKW PSTGAFNRLFVPLLTWWRSPDR
21300	51668	A	21428	301	773	HGPGTQQRPRSIWRMPQ*ARPG GRSLAVGGGPRPRAAGGP*VA SRARRCQRAHGCHCAFSPSP ALLSQDAGLCQSRPLLQQRRC LSQEVVWSGLGNVHFCQPPEDA ATTPSCPEALTAQQQQAASVCDR VSHRFSTWSMVRCSDRTEGOR LQTLGD
21301	51669	B	21429	1	1380	

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21302	51670	A	21430	1	1660	AGVLASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRYGLIG LNGIGKSMLLSAIGKREVPPEH IDIYHLTREMPPSDKTPHCV EVDTERAMLEKEAERLAHEDA ECEKLMELYERLEELDADKAE MRASRILHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLILLDEPTNHLDLDACVWLEE ELKTFKRILVLVSHSQDFLNGV CTNIIHMHKKLKYTYGNYDQ YVKTRLELEENQMKRFHWEQD QIAHMKNYIARFGHGS AKLAR QAQSKEKTLQKMMASGLTERV VSDKTLSFYFP CGKIPPPVIMV QNV SFKYTKDGPCIYNNLEFGI DLDT RVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSVKIG RYHQHLQEQLDLDSPLYEYMM KCYPEIKEKEEMRKNIGRYGLT GKQQVSPIRNLSDGQKCRVCL AWLAWQNPMLFLDEPTNHL DIETIDALADAINFEFGGMMLV SHDFRLIQQVAQEIWVCEKQTI TKWPGDILAYKEHLKSKLVD

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21303	51671	A	21431	78	2022	NNSNLPVWIIIPSDLAKKAA KKKEAAKARQPRKGHEENG VVTEPQVAEKNANGRE/TTRE VDLLTKELED FEMKKAARAV TGV LASHPNSTDVHIINLSLTFH GQELLSDTKLELNSGRRY/GLIG LNGIGIGKSMLLFAIGKREVP EHIDIYHLTREMPPSDKTPHCV MEVDTERAMLENEAERLAHED AECEKLMELYERLEELDAD*AE MRASRIHLHGLGFTPAMQRKKL KDFSGGWRMRVALARALFIRPF MLLDDEPTNHLDLDACVWLEE ELKTFKRILVLSHSDQDLNGV CTNIIHMHNNKKLYTYGNYDQ YVKTRELEENQMKRFHWEQD QIAHMKNYIARFGHGSAKLAR QAQSKEKTLQKMMASGLTERV VSDKTL SFYFP CGKIPPPVIMV QNV SFKYTKDGPCIYNNLEFGI DL DTRVALVGPNGAGKSTLLK LLTGELLPTDGMIRKHSVHKIG RYHQHLQEQLDLDLSPLEYMM KCYPEIKEKEEMRKIGRYGLT GKQVSPIRNLSDGQKCRVCLA WLA WQNP HMLFLDEPTNHLDI ETIDALADAIN EFEGGMMLVSH DFRLIQQVAQEIVCEKQTITK WPGDILAYKEHLKSKLVDEEPO LTKRTHNVCTLTASLPRP
21304	51672	A	21432	313	599	
21305	51673	A	21433	737	1006	DNPVVFVFGSVYMLDYVY*FS YVEPLHPWDEAHLIMVDKLF DVL L DSVQCYFIEDFCINVNQ YWSKILFCCISARLWYQDDAG
21306	51674	A	21434	1108	1260	GVNPNLSCFLWAFSAIHFLPH TALNVSRQFWYVVSFLSVSK NIFISAF
21307	51675	A	21435	804	917	
21308	51676	A	21436	158	298	
21309	51677	A	21437	1	1068	
21310	51678	A	21438	1	1188	
21311	51679	A	21439	122	352	
21312	51680	A	21440	647	662	ICGVISEGSLVLFH*SISLFWYQY HAVLVT/DSL VV*FEVT*HDASS FVLLA*DRRPEGSSPKSP
21313	51681	B	21441	53	692	
21314	51682	B	21442	1	925	
21315	51683	A	21443	606	900	

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21316	51684	A	21444	33	852	CWKFWARAN*AGGITLPDFKL YYKATVTKTAWKFHFTMFGV DLKETCTAPSLWKDLALNTVE LVCKLCVRQVEGARQIFQLNCT VSE
21317	51685	A	21445	3	795	
21318	51686	A	21446	475	1023	CWFSAGDGGLPDPDYQDFAA HPAGAGALYKCRDLINDNLR VSCQSHDDGDIRGMAFARQ*Q RPVQIDHNMARRG**AATFQPI NKTFSGIHWPHGMRTGGTNPN FENIECTNHIHTLGLPFSEVERN DCDGFNFQLHIFRQTRDLHTAP GRIGRLMLIEELLIDFVGGKII QIGDKHGH
21319	51687	A	21447	1637	2020	PSSEFTGGPARGFPERARAQL TGRTPGQRTQLDNDLLTKSTP WRGVMGPTLLPGLLAGPFQPL GHTGPFYPQGFWRQKTHWVRL AQAHWF*LGQFRGPKTADGG GSKGPGLSASHGAKHHVITYV
21320	51688	A	21448	1051	1185	
21321	51689	A	21449	1290	2025	
21322	51690	B	21450	1	1410	
21323	51691	A	21451	3269	3678	SLSIRLATAPCWLRYPASSRRFQ PTRSAGSVTDSSVTASASSPG*R *NASP*CRERSHRSSRGQARRSL HLWDRSDR*TLPCDHGRCCCHA NDQQVGFAGNYSTAGQT*RWT GFTAGHAGRDINKSADKLPA T AGKR
21324	51692	B	21452	2655	2825	
21325	51693	A	21453	1	896	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRKLNLTQNHSTTWKLN NLLLSDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKA VCRGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEKIEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITDTPTEYK LPSENTTNTSTQIN*KI*KKWIN SSTHTLSQD

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21326	51694	A	21454	23	559	TPGLRQSSLSPSAFASQNAAGVS GIGGFLVSLTSRMKPWTLAMFR CVWSFFLLVGSWSCWLQE*SC RPSQ*VSQFLNSSASGVVCCSC LELFVPPGGFVSLASRVKLQT FTVSVTAHKGQVDPKSEQQQD LVQKAKEHSFCSVEADLSGLPL LAGAACFYSLMEPHPHADWSI LQRAD
21327	51695	A	21455	26	323	
21328	51696	A	21456	221	734	
21329	51697	A	21457	293	2103	PCHSALSSPLPHRDCIALCFLNS GTSFVAGFAIFSILGFMFQEQG VPISEVAESGPLAFIAYPRAVV MLPSPSLWACCCFFMVLLGL DSQFVCVESLVTALVDMYPHV FRKKNRREVLILGVSVISFLVGL IMLTEGGMYVFQLFDDYYAASG MCLLFVAIFESLCVAWVYGAK RFYDNIEDMIGYRPWPLIKYCW LFLTPAVCTATFLSLIKYTPLT YNKKYTPWWGDALGWLAL SSMVCIPAWSLYRLGTLKGPFR EVIIPVSIRMTKVAGTAGLSGN VGPRCDLSRIEELPDGGTRCGM DSRVSGTTSNGETKPVYPVME KKEEDGTLERGHWNKMEFVL SVAGEIIGLGNVWRFPYLCYKN GGVVGFYNSIKNIPILQRVILFV RIHNMLNKGQGVLAACDAK KIEEKEADAGSASVPGDVMRT KKLSFEGAWHPCLLVGLKLS ALELRGGFISARIAGPRAAESDS VGLERELRVCIANKLPGEADAA GPGTTFWKHCSPITDGADAV EGRNTQEAFFRLNPEAAFLHF MEMVDTNALHVHGIHTRKNHP GQKEAAHSQHGTFPIRWTLNLL KRTFQKGNRAEPNSPAM
21330	51698	A	21458	1	419	MKLRTLAVSATALKVARLEFV PFDVRCSEFLSSGVKLQTFAY SVTALNALRLFLVPPGGLMVS LASGVKLQIFTVSVTAHKSSVD PKTLG/CVDDGTGRRGAGGGAH RGGLGRGTAHGGGGRLRHGGL QVSSPAPRKGS

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21331	51699	A	21459	24	1639	GGMDSRVSGTTSNGETKPVYP VMEKKEEDGTLERGHWNKMM EFVLVAGEIIGLGNVWRFPYL CYKNGGGAFFIPYLVFLFTCGIP VFLLETALGQYTSQGGVTAWR KICPIFEGIGYASQMIVILLNVY YIIVLAWALFYLFSSFTIDLPGW GCYHEWNTGNWVDVVE/HGG* GEWCGNGSNTPHVCR/VTGWT W*SRWLKGMVWEWQHTPCV QGTGWTW*STWLKG/PGNRVD VVEHVAEGNGVGMPTHTPTCA GNRVDVVEQVAEGNEHCMEF QKTNGSLNGTSENATSPVIEFW DSPPGPQFVCVCLVTASIDMF PRQLRKSGRRELLITIAVMCY LIGLFLVTEGGMYIFQLFDYYA SSGICLLFLSLFEVV CISWVYGA DRFYDNIEDMIGYRPWPLVKIS WLFITPGLCLATFLSLSKYTPL KYNNVYVYPPWGY/SIGWFLA LSSMVCPVLFVVITLLKTRGPFR KVGGVGESDLLKEGTERGWT WGRTHNWQGGADTNSECGAA LQSHRILTRITLKTSPIVAFQKCS
21332	51700	A	21460	1358	4787	RRCCGWSRYLLKRLWKWIS GEGWAEKDSARRRGICTFWLE FE/VTCLSWNSLF/YAHINVDISG MKVVPWL.YVGMCFSSFCWHIED HWSYSINYLHWGEPKTWYGVP SHAAEQLEEVMLRELAPELFESQ PDLHLQLVTIMNPNVLMHEGV PVYRTNQCAGEFVVTFFRAYHS GFNQGYNFAEAVNFCTADWLP IGRCQVNHYYRLRRHCVFSHEE LIFKMAADPECLDVGLAAMVC KELTLMTEETRLRESVV
21333	51701	A	21461	1	5773	MEEKPLVKKGKDSSEKKRRRK LEKVEQLFGEGKQKSKELKKM DKPRKKLKLGLADKSKELNKL AKKLAKKEERKKKKEKAAAK VELVKESTEKREKKVLDIPSK YDWSGAEESSDENAVCAAQN CQRPCDKVDVWQCDGGCDE WFHQVCVGVSPMAENEDYICI NCAKKQGPVSPGSHKAVITVV VKAVSYLKFEESTSELMWLL AAFSSFVVVGKALDFVWPLA REEKEIGDNKDLERNKIGVNM

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21334	51702	A	21462	85	1333	STSRALSGAQRFGRLIDHGARV PALLLLLLLPVHVVSATTEPEPVE LDDEDFRVCNCFSEPPQPDWSEA FQCVSAIVEVEIHAG/GLNL/EPF LKVRVDADADPRQYA/DTVKG PR/VRASQVGAAQVPA/QLLV GALR/VLA/YSRFKELTLEDLKI TGTMPPLPLEATGLALS/SLRLR NVSWATGRSWLAEL/QQWLK PGLKVLISIAQAHSAPFSCEQVR CFPGPSPA*DLSDNPGTGANAE LMAALCPHKFPAIQNL/ALRNT GNRRRQGVCAALAAAGVQPH SLDVSHINSLRANRNP/APRCM WNSNA/LNSPQICRFAGAGTGVP KGPAPAKL/RVLRSSACNRL/INR A/PQPWTSLEPVDNLGQLDGNP FPGSPGTGSPSTEGSMN/SGVVP SLCNVRTCRVGVSGTLVLLQG ARGFA
21335	51703	A	21463	1640	5804	TITGSSPLAGGHSTCRGRMDM VENADSLQAQERKDILMKYDK GHRAGLPEDKGPEPVGINSIDR FGILHETELPPVTAREAKKIRRE MTRTSKWMEMLGEWETYKHS SKLIDRVYKGI/PMNIRGPVWSV LLNIQEIKLKNPGRYQIMKERG KRSEHIIHIDLVDRTTLRNHV FFRDRYGAKQRELFYILLAYSE YNPEVGYCRDLSHITALFLLYL PEEDAFWALVQLLASERHSLPG FHSPNGGTVQGLQD
21336	51704	A	21464	1	960	
21337	51705	A	21465	1	1317	
21338	51706	A	21466	1	3393	
21339	51707	A	21467	2745	6141	QGSKGTCHPQAQQPWDEGVW QEAPSQSEPWGQSQEPPTMPQR LPHARQHTPLPLGSADYRRVVS VRPQGFHRDPKDSRDAAREQ GSLAPRPVPASRGGKTLCKGYR QAPPGPAAQFORPICSASPPWAS RFSTPCPGGAVREDTYPVGTQG VPSLALAQGGPQGSWRFLWK SMPRLPTDLDIGPWFPHYDFE RSCWVRASQEDQLATCWQAE HCGEVHNKDMSWPEEMSFTAN SSKIDRKQKVPTEKGATGL
21340	51708	A	21468	65	320	
21341	51709	A	21469	3	505	

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21342	51710	A	21470	2	1756	CRCHSELGSSSL*/CCTRGIGGAI GAVGFRSQAASLAGQPPDGNG VCVHAGNSRIFVPLPVGLEVKG FSHSAFTFGIESHSQSNINGTLV PPSALISILKGLQYVEAEISINK DGTVFDSRPIESLSLIVAVIPDV VQMRQQAFGEKLTQQQASAA ATEASAMAKAATMTAAISQQ NPPKNREATVNGEENGAGEHINN HSKPMEIDGDVEIPPNKATVLR GHESEVFICAWNVPVSDLLASGS GDSTARIWNLNENSGGSTQL VLRHCIREGGHDVPSNKDVTSL DWNSDGTLAMGSYDGFARIW TENAPALDWDWQNNMTFASCS TDMCIHVCRGLGCDHPVKTFQG HTFCTCIESICFWGGLRKLTTM TEGKRLRPKTFCDGGALLPPA GRRPHLLTGPDIFFKRLSALFQN EVNAIKWDPSGMLLASCSDDM TLKIWSMKQDACVHDLQAHSK EIYTIKWSPTGPATSNPNSSIML ASASFDSTVRLWDVEQGVCTH TLMKHQEPVYSVAFSPDGKYL ASGSFDKYVHIWNTQSGSLVHS YQGTGGIFECVWNRGDKVGA SASDGSIVCILWQLSGKQ
21343	51711	A	21471	1	1647	
21344	51712	B	21472	4	267	
21345	51713	A	21473	1	1824	
21346	51714	A	21474	33	543	TFEGANNFVGDPVLPNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVGRKRDSRN D/YCCFAA/FPRIKGLLYRKMPM /RNLTVNSSSIKAKENPKLLA SPLRSGSESSITLKGEILLLECF AEGLPTPQVDWNKIGGDLPGK REAKENYGKTLKIENVY
21347	51715	A	21475	197	516	TYLAAGRTPTLDPWNQERCTM PSGSIWILETHSSFGWVTVAH LSSDPKGCQF*VGSRIEGGSA TDPAFASCASATWIRPSRSNGA*G VNG**VCWLEPLAGPHR

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21348	51716	A	21476	1	1766	MNVALTHIDTHHAEFEMALQA ALVWNTLRTAGGKKSVDHLASA LLVHEIHDGANLTISNVTLEDQ GIYCCSAHTALDSAADITQVT LDVDPDPENLILSERQNRSVRL TWEAGADHNSNISEYIVFEGN KEEPGRWEELTRVQKKTTVIL PLAPFVRVYQFRVIAVNEVGRSQ PSQPSDHHETPPAAPDRNPQNIR VQASQPKEMIIKWEPLKSMEQN GP/GLEVRVTWKPGGAPVEWE EETVTNHTLRVMTPAVYAPYD VKVQAINQLGSGDPDQSVTLYS GEDLPEQPTFLKVIKVDKDTAT LSWGLPKKLNGNLGTGYLLQYQ IINDTYEIGELNDINITTPSKPSW HLSNLNATTKYKFYLRACTSQ GCGKPIEESSTLGEQSVSLEKC ENKLIRNIGTKKGQTAIRIPENV EAAELRKQKQLEECGGFRRE NANEQQGVTEEFKQNEKLRF LLLKIVILAVAREMTWNGEGR DLSEPSLTVVFADLSSPAYSLHT TMAQEPGPGFLFLSLSTIPWISSI PMIHASVQVSWIPLLRNSLMVH IHSSLEQRNLKVHISKEQKCLNS VDSDLTDNPPTHTIVN
21349	51717	A	21477	1	1440	RAMEPLLLGRGLIVYLMFL.LLK FSKAIEIPSSVQVPTIIKQSKVQ VAFPFDEYFQICEAKGNPEPTF SWTKDGNPFYFTDHRHIPSNN GTFRIPNEGHIHFQGGYRCFAS NKLGIAMSEIEFIVPSVPKFPK EKIDPLEVEEGDPVIVLPCNPPKG LPPLHIYWMNIELEHIEQDERV YMSQKGDLYFANVEEKDSRND YCCFAAFPRLRTIVQKMPMKLT VNSLKHANDSSSSTEIGSKANSI KQRKPKL
21350	51718	A	21478	266	3974	

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21351	51719	A	21479	1	2421	QAGAMASGSVAECLQQTTCF VCLQYFAEPMMLDCGHNICCA CLARCWGTAETNVSCPQCRETF PQRHMRPNRHLANVTQLVKQL RTERPSGPGGEMGVCEKHREPL KLYCEEDQMPICVVCDSREHR GHSVLPLEEAVEGFKEIQNQL DHLKRVTRLKFTDFLAQGEQA RAELLSLTHMEREKIVWEFEQL YHSLKEHEYRLRLARLEELDLAI YNSINGAITQFCNISHLSSLIAQ LEEKHQQPTRELLQDIGDTLSK AERIRIPEPWITPPDLQEKIHIFA PKCLFLTESLKQFTEKMQSDME KIQELREAQLYSGGSIVGGHEP GEPRGIKAGYGTCNCFPEEEKC FCEPEDIQDPLCDEL CRTVIAAA VLFSFVVSVLLSAFCIHCHYHKF AHKPPISSAEMTFRRAQAFVPS YSSSGARRPSLDSMENQVSVDA FKILEDPKWEFPRKNLVLGKTL GEGEFGKVVKATAFHLKGRAG YTTVAVKMLKENASPSLRDL LSEFNVLKQVNHPIVILYKLYGAC SQDGPLLLIVEYAKYGLRGFL RESRKVGPGYLGSGSRNSSL DHPDERALTMGDLISFAWQISQ GMQYLAEMKLVHRDLAARNIL VAEGRKMKISDFGLSRDVYEE DPYVKRSQGRIPVKWMAIESLF DHIYTTQSDVVSFGVLLWEIVT LGGNPYPGIPPERLNLKLTGH

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21352	51720	A	21480	79	2253	PSATLSCTPSVAASLGEPVAFPL SLRGHRRRHPRGHSPKPSVRGRV WDTGPGGAALRPPGASQEQR GESAGELGSVQSSAPGMPVVRP RRPGAMASGSVAECLQOETTC PVCLQYFAEPMMLDCGHINICC ACLARCWGTETVNSICPQCR EITPQRHMRPNRHLANVTQLV KQLRTERPSGPGGEMGVCE/K HREPLKLYCEEDQMPICVVCDR SREHRGHSVLPLEAVEGFKEQ IQNQDLHLKRVKDLKRRRAQ GEQARAELSLVQMMEREKIVW EVEQLYHSLKEHEYRLRLARLEE LDLAIYNSINGAITQFSCNISHLS SLIAQLEEKQQQPTRELLQDIG DTLSRAERIRIPEPWITPPDLQE KIHIFAQKICLFLTESLKQFTEK MQSDMEKIQELREAQLYSVDV TLDPTATYPSLSDNLRQVRY SYLQQDLDPNPERFNLIFPCVLG SPICFIAGETIIWEGRGWDKAK WTIGVC*RLSCQEKGGVTSAP QNGFWAVSLWYGKIEYWALT SPMTALPLRTPFQIRVGIFLDYD AVEVSFYNVTERC/HTPFTFSS CLPFGGLVRPLSSLSYSGREK VQLPLINLP*SGIDGGFLAHVG INHGSPFWKTFPFEGRVNSGPK GLLAVILRPGTRHLVCLANVLS KLGIUNHVPVPCSGRHGCPCLP SFFLPMQIVKCNEMYQDILEKT
21353	51721	A	21481	1	1068	

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21354	51722	A	21482	955	2548	MSLCGARANAKMMAAYNGGT SAAAAGHHHHHHHHLPHLPPP HLHHHHHPQHHLHPGSAAAVH PVQOHTSSAAAAAASAAAAA MLNPGQQQPYFSPAPGQAPGP AAAAPAQVQAAAAATVKAHH HQHSHHPQQQLDIEPRPIGYG AFGVVWSVTDPRDGKRVALKK MPNVFQNLVSKRVFRELKML CFFKHDNVLSDIL*PPHIDYF EEIYVVTLMQSDLHKIIVSPQ LSSDHVKVFLYQILRGLKYLHF RLGILHRDIKPGNLLVNSNCVL KICDFGLARVEELDESRHMTQE VVTQYYRAPEILMGSRHYSTAI DIWSVGCIFAELLGRRILFQAQS PIQQLDLITDLGLTPSLEAMRTA CEGAKAHILRGPHKQPSLPVLY TLSSQATH*TGHLFAECGFDP SKRISAKDALSHPYLDEGRRLRY HTCMCKCCLSPS/ TGRVNT/SDL EPVT/NPKFDDTFEKNLSPVRQV KEIHHQFILEQ/KQGNRV/PLWIN PQSAVFKSFISSTVAQPSEMPP/S PLVWE
21355	51723	A	21483	119	692	SYKSRLARKSVTGGKAPRKQLA YKKPASQECGPLTGGVKKPHR YRPGTVAAP*NLDGYQKSTEL MIRK'LRFRQLVREIAQDFKT DLRFQSAVIRWLCRMAS/EAYL VWPFKDTNLVCLSMPCRVTIY AKKTFQLSTPASRGERALRIHS WMGKHFILKKKKKFLFLL VVLNVRYFFFHGVKRYLSI
21356	51724	A	21484	2	363	RFTKVMEMKUMLSAAREKGR VTHKGKPISLKADLSAETLQAR REWGPIFNLKEKNFQPRISYPA KLSFISEQEIKYFTDKQMLRDFV ITRPALKELKEALNMERNNW YQPLQKHAKL

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21357	51725	A	21485	1	1468	MRNLRNIQKAKATINLGISFDE GLKGFMSRIEAAPLNTRWC LPHGYSGPANSGGCYYITTGMS CWLSLDLYPRHDGVHVLQKG DLEHDIPVDLGSRPVSVDPSRS APGPQGPAPVDSGSRITPANP GAGPSPVDPSSRPAPVASGRLI MIDQNTKLIIPVGWPLRLRLKI YLSRSASLDSGSRFAPVDTNFI PVPTDRGHSHAPEDPVDRLTSV DPTKEKNWMENEFDKLTEVGF RRSVITNFSELKEHVLTHRKEA KNLEKRLDEWLSRITCAEKSLN DLMELKTTVRELREAYTSFMS QFDQAEERISVIEDQINEIKLSL QAQEDARHRNTDQRSSSENRRS EPWSLEERKREQWNSLKQNAD QQDTEAMSDYK/R/YSSET*RRR *LFCLLRKVHSEGP*KKDQRE TRNQKGLGFLDRPQWVSGKM KQECLQLGTPWP*IIIGWQYFP RDGMGVRTDFCRIFQLARMR LCEGCLMNS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
21358	51726	A	21486	1	2589	MSPVTLWVRTSSRGEDRCGMC TPGRDTGFAPISGMC SKYRSCTI NEDTGLGLAFTMPMSLDTKHIP NFGKVHGYIMRHHKNEDTIPW RRNTKKEEARGTQPLEADDQN PGWEDGKPGSLENEGRSSIRG NPAPDMPQPPKEDLFLPDEYK SCLRHKRSLLRSHRNEELNVET LVVVDKMMQNHGHENITTY VLTILNMERILKKTSTTHHPSA MERCVPVNLQIRDSLWNHCFSL ATTVHRFHPVGRHALKKMYKL PSAYINVSITKYTQRFALTYISC VFHRNAAFVAVPGEGRCCAGV DVPAPMSLRSPGPHWPQEHGA LWISCTVRGMASCLGQLCRVS MRVRANIGKVQKPRLRISNGK GLHTQSELSSGAYLEKGWGGA APGLDSRNEKGTGEGARDSGTPG RQSQTQLRGPPGPVPGSSKIAPO TLTRQGSMTASRKLVLLEPFC ERTGEQSGQLYPPSPLLVEWV MPAGTSSTVDLLPELCRRWER QALSCLRLYRQRTSVSICALCD HTETRVALSTCQGLECNSSPA RKQNWMEFEELTEVGFRKS VITKFSKLKEHILTHRKEAKNLE KRLDEWLTRITSVEKSLNDLME LKTTVRKVLHEAYTSFNSRFDQ VEERILVIEHQNEIKQEDKVRE KRVRNEQSLQEIWDCVKRPN LCLIGVPESDGENGTKLNTLQ
21359	51727	A	21487	260	1292	RLCAFNKRMTFQNFNTIEDHLE NELTPIRDGALTLDSSKELSVSE SQKGEERDRKCSAEQFDLPQD HLWEHKSMENAAAPSQDITDSPL SAASSSRNLEPHGKQPSLRAAK EHAMPKDLKKMLENKVIETLP GFQHVKLSVVKTILLKENFPGE NIVSKSFSSHSLITGVYEGGLK IWECTFDLLAYFTKAKVKFAG KKVLDLGCGSGLLGITAFKGGG KEIHFDYNSMVIDEVTLPNV VANSTLEDEENDVNEPDVKRC RKPKVTQLYKCRFFSGEWEFC KLVLSEKLFVKYDLNLTSETIY NPDYYSNLHQTFLLRLSKNGRV LLAKAHVQRNSLSRL

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21360	51728	A	21488	263	1466	RLCAFNRKMTTFQNFNTIEDHLE NELTPIRDGALTL\SSKEL\SVS ESQKGRKE\DRDKCSAEQ\DL P QDHLWGNISSMGK\WQAPS\QG HRTSSTSV\AASSSRNL\EPHGKT ALLAGAGQSRSMAMPKR*\RR LEN*\SPLET\LPGFQHVKL\SVVK TILLKENFPGENIVSKSFSSHSDL ITGVVEYEGGLKIWECTFDLLAYF TKAKVKFAGKKVLDLGCGL LGITAFKASKEIHFQDYNM IDEVTL\PNVVA\NS\TLEDGGM DVK\WSPDVEKMPGNPKV\TQ\ L YK\CRFFS\GEWS*\VL*\ALYSSE K\LFVKYDPHSSPSETIYN\PIDY YSNL\HQTF\RLRLSKNG\RVLLA SKAHYFGVGGGVHLFQKFVEE RDVFKTRILKIIDEGLKRFIIEITF
21361	51729	A	21489	2	367	
21362	51730	A	21490	2	376	QTYSLRRATPRHIIIVGFTKVEM KEKVLRAA\NKPIRLTV\DLAET LQARKEGGPIFNILKEKNFPQRI SYPAKLSFISEGEIKSFTDKQML KDFVTTTPALQELLKEALNME RNNQYQPLQKHAKW
21363	51731	A	21491	1	690	
21364	51732	A	21492	1	714	
21365	51733	A	21493	1	1536	
21366	51734	A	21494	1	765	
21367	51735	A	21495	1	972	
21368	51736	A	21496	1	2670	
21369	51737	A	21497	2	1178	
21370	51738	A	21498	2	827	
21371	51739	A	21499	1	777	
21372	51740	A	21500	168	1057	IRLKNHDHGDGELRNKTCINRNL AEIKKFSNENKETYMYLNLW DVAKAVLRGQFIALNARIKKE KSQVYNLISQLEKENQEQTNP KASRRQEITKIRAEKVEVETWK TLKKINESGRGVDCSS/DASNGT KPDGE*L**VDKSR/PSEARQAN IIHQEIIGTFQR*\SLRRATPRH/II VRFTKVEMKEKMLRAARKKG WVTHKGKPIRLTADLLAETLQ ARREWGPINFILKEKNFQLRISY PAKLSFIREGEIKAFTEKQILRDF VTTTPALQELLKEALNMRND RYQPLQKHAKL

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21373	51741	A	21501	3	1263	GRTIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRLSRSQCDQLEERVVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIERQRTPOQYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRAILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLDQIIQ ENFPILARQANVQIEIQTPOQ YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
21374	51742	B	21502	1	2356	
21375	51743	A	21503	2	484	
21376	51744	A	21504	2	902	ASFFSKKTSFGGWWGAGGPGD PGMGNHGGFRGGFSRGIRGWG HSRGQGGQGGRAHRGKTKDK EWTSPKLGHLVKDMKIKFLEEI YLFLLAIKEFEIIDFLGASLKDE VLKIMPVQKQTHASQRTRLKG FIVIGDYNG/HVGLGVKCSKEV A/TAIRGAAILG*LSIVPMCROY WGSKIGKPHITVPCKVTGHCGS VLVHFIPAPRGTGIVSVMP/KK LLL MAGIYDCY/ARSCATLIGN FTKATFD AISKTSYPTPNLWK ETVFTKSP/YEFRNSGQEFTDYL VKT/HIRVSVQRTQAPAVATT
21377	51745	A	21505	2	407	STISCGGNFPIRGGSGVASLER AESSSTEPAKAIKPIDRKSVMHI CSGPVVPSTLSTAVKELVENS LD AGATNIDLKLDYGVDLIEVSG NGCGVEEENFEGLTLKHHTSKI QEFADLLSDVTSTCHVSAKVG
21378	51746	A	21506	362	490	
21379	51747	A	21507	3009	3889	
21380	51748	A	21508	1	504	LDLHKWFLSSFLTAISIGIKF LLKIHISRGSGVLLQLLPGNPSP AAHGTEELEPKFLEQGYLRAVL PGPRVHATA*LEPTVTDQGYAR AGLPIQEVEDVLFGLVVLVLLHV IGQVAEDRNQVAAQGHQES/C PAQCWGDCTHLEIAGWRGIRRS DANPRSQRKFGF

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21381	51749	A	21509	2	1101	WTERRLGSGVRGDLRERSRPA VNRTPRMSRVSPGAPRGTPSSRR WMMMKCWDHQLPG*IPAPHV GPLAG/IRKKEWSEDEEEPEKE LAPEPEETWVVEMLCGLKMKL KQQRVSPILPEHHKDFNSQLAP GVDPSPPHRSFCWKRRRE WWD ESESLEEEPRKVLAPPEEIVW AEMLCGLKMKLKRRRVSLVLP EHHEAFNRLLDPVIKRFLOWD KDLRVSDKYLLAMVIA YFSRA GLPSWQYQRIHFFLALYLAND MEEDDEDPKQNIIFYLYGKTRS RIPLVRNRRFQLCRCLNPRARK NRSQIALFQKLRFQFFCSMSGR AWVSREELEENTGPRGDVDFQ QELYSNANGRQQRGEEFPVQI
21382	51750	A	21510	3	918	
21383	51751	A	21511	1	792	
21384	51752	A	21512	3007	3885	
21385	51753	A	21513	615	845	GHTASPPRSPQAQGRAPSVAP PPTTPQICPTTSSFSKKRTYAG GWDLPQGQADC*SPCGAQGG WVTLAVASASS
21386	51754	A	21514	357	562	GSSTCGRETERVVLKKRKRSP HFQYRNSPTAEARPQLE/PTQW GRRSHSPRPSAPLPCSCPQKSRK SV
21387	51755	A	21515	1	1335	
21388	51756	A	21516	537	1164	SSTPEAKAIKPIDRKSVMHICSG PVVLSLSTAVKELVENS LDAGA TNIDLKLDYGVDLIEVSDNGC GVEEENFEGLISPTLKHHITCKI QEFADLTEVETFGFQGEALSSL CALSDVTISTCHASVKVGTSLV FDHDGKIIQETPYPHPRGTTVS VKQLFSTLPVRHKEFQRNIKK/R ACFPFAFCRDCQFPEASPA MLP VQPAELMAV
21389	51757	A	21517	224	903	GFTWYIGMAQPKQERVARARH QRSETARHORSETAKTPTLGNR QTPTLGNRQTPRLGIHARPRR ATTSLTLLRAFGKKTQS/STEP AKAIKPIDRKSVMHICSGPVVLS LSTAVKKIVGNSLDAGATNIDL KLKDYGMDLIEVSGNGCGVEE ENFEGLSDWSTGVDFDHDGKIIQ KTPYPHPRGTTVSVKQLFSTLP VRHKEFQRNIKKPVGEKYMRS VDTQACSCI

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21390	51758	A	21518	2	1321	VKSRAALLGPGA/LSPLEVSRRR PWTERRLGSRGDRLRERSRPA VNRTPRMSRVSPGAPRGTPSRR WMMKCDHQLG*IPAPHV GPLAG/IRKREWSDEEEPEKE LAPEPETWVEMLCGLKMKL KQQRVSSILPEHHKDFNSQLAP GVNPPPHRSFCWKRKMEWW DQSEESLEEEPRKVLAPPEEIW VAEMLCGLKMKLRRRVSLVL PEHHEAFNRLEDPVIKRFLAW DKDLRVSDKYLLAMVIAYFSR AGFPSWQYQRIHFFLALYLAND MEEDDEDSKQNIHFYLRKNRS RIPLLKRWFQLGHSMNPRARK NRSRIPLLKRRFQLYRSTNPRA RKNRSRIPLLCKRRFQLYRSMN SRARKNRSQIVLFQKRRFHFFCS MSCRAWVSPEELEENTGPRGD VDFQQELYSNANGRHQAGGEE

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21391	51759	A	21519	1	2654	RSACGSPA WNFPSPRGSGVAS MEVRAESSSTEPAKAIKPIDQKS VHQICSGQVVLSTAVKELVE NSLDAGATNIDLKLDYGVDLI EVSDNGCGVEEENFEGTLKH HTSKIIEFADLTQVETFGFRGE ALSSLCALSDVTIFCHASAKV GTRLMFHDHNGKIIQKTPYPRPR GTTVSQQLFSTLPVRHKEFQR NIKKEYAKMVQVLHAYCSFQ QASV*VAPISLDK/RKRQPVVCT GGSPSIKENIGSVFGQKQLQSLI PFVQLPPSDSVCEEYGLSCSDA LHNLFYISGFISQCTHGVRSSST DRQFFFINRRPCDPAKVCRLVN EVYHMYNRHQYFVVLNISVD SECVDINVTDPKRIQLLQEEKLL LAVLKTSLIGMFDSDVNKLNV QQPLLDVEGNLIKMHAAADLEK PMVEKQDQSPSLRTGEEKD SISRLREAFSLRHITTENKPHSPK TPEPRRSPLGQKRGMLSSSTSG AISDKGVLRPQKEAVSSSHGPS DPTDRAEVEKDSGHGSTSVDS GFSIPDTGSHCSSEYAAASSPGDR GSQEHVDSQEKAPETDDSFSDV DCHSNQEDTGCKFRVLPQPTNL ATPNTKRKFKEEILSSSDICQKL VNTQDMSASQVDVAVKINKKV VPLDFMSSSLAKRIKQLHHEAQ QSEGEQNYRKRFRKICPGENQA AEDELKREIKTMAEMEIIQGF
21392	51760	A	21520	238	413	
21393	51761	A	21521	288	467	
21394	51762	A	21522	1	3038	MDVGWDLGEDCWQEHHTAF SFDCWPCSQNGDRVPSVNPVG GGAPRSYLQVASECWAAPAA VHVGEVPHAGGLHTEGADPV IGLYLVHRGACQTPTVGNRQ TPTLGIHARPRRRATTSLTLL AFGKNVARTPEPAKAIKPIDRKS VHQICSGPVVPSLSTAVKELVE NSLDAGATNIDLKLDKESGLI KVQANWGWVKEETSKGLLKH HTSKIIEFADLTQVETFGFRGE ALSSLCALSDVTISTCHV
21395	51763	A	21523	34	256	ETGPPGSA PGRLEFTNIKRVVVP QERVELETLLVS YFSRTPRPRTP PPFPHPCS*EDNVITVFSSIKNGP GSSR

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21396	51764	A	21524	727	2953	HVSgyDDVPLGTLSDIWPPAL FSVVSFAAFFFTTPIEAVLKSFSC LLVWYIGMAQPKQERVARARH QRSETARHQSETA/KTPTLGN RQTPTLGNRQTPLRGIHARPRR RATTSLLTLLRAFGKKTS/STE PAKAIKPIDRKSVHQICSGQVVL SLSTAVKKIVENSLDAGATNID LKLDYGMDLIEVSGNGCGVE EENFKGLTLKHHTSKIQEFADL TRVETFGFGEALSSLCALSDV TISTCHVSAKVGTRLVFDHDGK IIQKTPYPHPRGTTVSVKQLFST LPVRHKEFQRNIKKAQR/PQAR/ CYRCS*PNVSPGPGMAAATLS A*PRSQSSYFISCKA/EDNAICPI AEQKAEGKFSSRYRNHDSAEN RRDGSMTRPRTDWTLKRACTE KRRPQHASSFEWRGHSCLCWRD EQRDAETLKMLLDSGLSVQKK TKDRTETRFGEIMGQILGKIMMS HQPQEQEQSPQRSTSGYPLQE VVDDEVSGSPAGVDPSPPRRS LGWKRKRECLDESDDPEPEKEL APEPEETWVAETLCGLKMKAK RRRVSLVLPYYEAFNRLLDP VIKRLLAWDKDLRVSDKIPSEP TILGASPKTLPASRICIRPSNTP PPRNFHMSTVTPMLSYLANDM FEDDEAPKQNIYFLYEETRSHI PLLRELWFQLCRYMNPARKN CSQIALFRKYRFHFCSMCRCA

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21397	51765	A	21525	1054	2349	SCPQIIFLSSCLQVASAECWAAA PAVHVGEVPVHAGGLHTERGAD PVIGLYLVHRGGACQTPVNGSR QTPTLGIHARPRRRATTSLTL LAFGKNAVRCALIGPGSLTSRT RPLTEPLGEKERREVFPPRPER VEHNVSSRWEPRRRGACGSR GGNFPSPRGGSGVASLERAES SSTEPAKAIKPIDRKSVHQICSG PVVPSLRPNVAVKELVENS LDAG A\TNVDLKLKLDYGVDLIEVSG\ NGCGVEEENFEGL/TLSALKH HTSKIREFADLTRVETFGFRGE/ AL*ASLCALSDVTISTCHVSA\ VGTLTGVFDHDKIIPENPPNPH PRGTTVSVKQLFSTLPV\RHKEF QRNIKKKRA\CFPFACRDCQFP EASPAMLPVQPAELTPRISTP\PH PCSLDNVITVFSS\VKNGPGSS KMICTNGSSPSS
21398	51766	A	21526	2	393	
21399	51767	A	21527	2	165	
21400	51768	A	21528	3	196	
21401	51769	A	21529	1	411	
21402	51770	A	21530	1	1727	GPQGVGRMAEGKAGGAAGLF AKQVQKKFSRAQEKVLQKL GK AVETKDERFEQSASNFYQQQA EGHKLYKDLKNFLSAVKVMHE SSKRVSETLQFIYY\SEWYGHEE LKAIVWNNDLLWEDYEEL\A DQAVRTMEIYVAQFSEIKE\RIA KRGRKLV DYDSARHHLEAVQN AKKKDEAKTAKAEFEFNKAQT VFEDLNQELLEELPILYNSRIGC YVTIFQNISNLRDVFYREMSKL NHNLYEVMSKLEKQHSNKVVF VKGLSSSRSLVISPGVRTATV SSPLTSPTSPSTLSLKSSESVS TEDLAPDAAQGEDNSEIKELLE EEIEIEGSEAGSSEDDPLPAC NGPAQAQPSPTTERAK\SQEEV LPSTTPSPGGALSPSGQLSSSA TEVVLRTRTASEGSEARPKKTAS IQRTSAPPRRPPPPRA\TASPRCS GNIPSSPTASGGGSA\TSPRASL GTGTASPTSLEI*\PNPE\PPKEP VRTPEAKENIHNQNPPELCT SPTLMTSQVASEPGEAKKMED KEKDNKLISADSSEGQDQLQVS MVPENNNLTAPPEQEEVSTSEN
21403	51771	A	21531	1	1530	

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21404	51772	A	21532	499	1587	HPRDPEAPSGPLWSASLPA YSQGHANEFDGNSNSTSHAVLVLV QKHIAVL SNKLC LSTSSLVQG VNAHLGTLIWQPRGYLSPRSA IPWFVPTVTSGLHFPWEVQ*L FLLSCWGKAHQSLPQRMPLLC CQGMWVPEGSMA TVGLSQQLF DSALLLQKAGALNLDITGQLR SDDNLLNTSALGR LIPEVARQF PEPMPVVLKVR LGATPVAHGS TQTATLRPA SFVGGSWATGP PNSAFPSPPSCLVVNLRTPAS LSSKGEALREHVCA WWMSQL TVASSNVGFIDTQVRTL MGTV FEKPLLDHLNGLGHGELPSLV WVNLYVAPEIFVYEGYVVISS GTLLPEPEAKTTGRP
21405	51773	A	21533	1385	3111	IAPSEVKEHKMVLMLNPIHYN ITSIVPEAMPAA TMPVLLTGLF LLVWNYEGTSSIPGPGYCMGIG PLISHGRFLWMGIGSACNYYN RYVGEFMRVVISGEETLIISKSS SMFHIMKHNHYSSRFSGKLGLQ CIGMHEKGIIFNNNPELWKTR PFLYERLCHAPASVRMVTVCA ESLKTHLDRL EEVTTESGLCG TCLTLRRVHGWDT SNTVFLG IPLAESAIIVKIQGYFDAWQAL LIKPDIFFKISWLYKKYEKSVK DLKDAIEVLAEKRRRISTEK LEECMDFATELILAEKRGDLTR ENVNQCILEMLIAAPDTMSVSL FFMLFLIAKHPNVEEAIKEIQT VIGERDIKIDDIQKLKVMENFIY ESMRYQPVVDLVMAQSL*EG* C*SMGYPVKKGTNIYSWNIGR VHRL*FFPKPNEFTLENFAKNV PYRYFQPFGFGPRGCAGKY/LS AMVMMKAILVTLRLTDST*RT LPGTSVFESIQEGYTTCPWHPD ETKNMLAEMDLYPKETSDRCLG TLRKAGQYLTLGA FSPVCS P TNNPILCPLVFILHSGT LSGPMA
21406	51774	A	21534	129	378	IVCKFSVSTHKNIRAKKPDRLP ECGTQIRKDTLKRVRRTVLHYL CPPPSVPEIPAWRGDCSP/VGK EGKCTPDLPNPNIELRPV

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21407	51775	A	21535	1	474	MQKQIISVTEVEWYPKYNSNM KEYWSTQNHQFEQLSTHKNIR AKKPDERLPECGTQIRKDTLKR PCPLDRPLWPHITAEQGSKPST WPAPCDP/IF*ANIHLPSLHTGPC RSKVQAHSSRPGCQASSTCVPR LQDLPC*PRFLRLVDQDARPA APVYQGSRTYPADPDSRPAPVD SGCIISGQADW
21408	51776	A	21536	2	325	WAFSITERREFQVYYNSCPSSS WIGDARAFSPDPTGLYPIYSQ DTQTFRLLWNYNTDFPGSPAC KWQAMELLSPQSPFRVDRGEH LPFLVKGARYTLVPAGQEGAL AAWLEALRGQLGRRGAVVSM MDAEGLERSSPDCAMGLSDGE WQLVLNVWGKVEADIPGHG/Q EVLIRLFKGHPETL/EKFDK/FTR HLKSEDEMKADELKHKMCH TVLTP/LGVHILRE/KGHH*RQR FKPLGTSSSHCPSTKIPPLKVTL EFHLPGLAFIQVLAEQAIPEGDFG/ AECPGAQLKQRPWELFRKNNG LPTYKEAGAFQGARALAGFPTP THLGPPGFKKRAGV
21409	51777	A	21537	2	1011	
21410	51778	A	21538	157	322	
21411	51779	B	21539	1	975	
21412	51780	A	21540	218	388	RKLPLAGLPCINRQHS*SNVNIC FLTPV*KIQN*LQSEQFLPYPTIV IITLCFFAV
21413	51781	A	21541	663	933	GCAGPCLVNQMFGKQYYLGKS HHPSLVSLNRGAHCTVGKPPQ PSGP*KLGYFVKVFPPCG*FWK YGPSWGMEERAWTGSPLGPGP PLKKV
21414	51782	A	21542	389	1033	NQGLRNLGLCRTCLVNKMFTS SILGKSHRHSLSVINQGNALW KAAG/PLPLKAGY/CQGFSPCHS LKYGSWDEKDLTPQPDTLKG SVLRWISKRGKPLAVEIEEGHC L/LCLPLGTECLGIK/PIVHLFNSE IGENRPYGG*DMFCSNGCLG* FL*LPLRCLG/GEKHKSGL/HVHI PVIVPPELNYDIDSFAHMFV/V DLS/LIITLLSCYIFFC
21415	51783	A	21543	82	163	
21416	51784	B	21544	1	211	

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21417	51785	A	21545	71	1086	NMNLSTVLAFAFLGIASAVPKF DQNLDTKWKYQWKATHRRLYG ANEEGWRRVWVEKNMKMIEL HNG/EKYSQGHGFTMAMNA FGDMTNEEFQRMGCFRNQKF RKGVVFREPLFLDLPSVDWR KKGYYTPVKNQKQCGSCWAFS ATGALFGQMFRKTGKLVSLSE QNLVDCSRPQGNQCGNGGFMA RAFQYVKENGGLDSEESYPYV AVDEICKYRPENSIVANDTGFTV VAPGKEKALMKAVATVGPISV AMDAGHSSQFYKSGIYF*PDC ISKNLQDQGLVVGYYVEGANS NNSKYWLKNSWGP/EWGSIN GYVKAIDKNNHCIGIATAASY
21418	51786	A	21546	170	412	LWLSFLLMHHW*IPLAASVSFT VSN/PILDFS*IQLKTPKHFGLNG NTGFLGKQLRLLRLSVSVSRL HCLLYRRRTQMPPL
21419	51787	A	21547	1	753	
21420	51788	A	21548	125	464	TAVFLTQSLFGGLFTRTRMKFG TMTRI/RGDLPWENPLSSCSLL HEKDPPTTSGPQTNPQKKHLTN FKSRKVERTKGLLTKLTKLSH QLKKAWTILLPLSLRIQACPR NAT
21421	51789	A	21549	1	753	
21422	51790	A	21550	291	671	
21423	51791	A	21551	10	453	TALLLTQSLFGGLFTRTRMKFG AMTRIG/DLPWEINPLSSCSLLC EKHPPTTSGPQTDQPKKHLTNF KSETKETCFIHEPKTLAPVTDW EGSLPLVFNHCRDGLSDHSATF QGQCTMQGCLPWSFTLSGKSR FPGAGASTPQPLLLHP
21424	51792	A	21552	740	1010	TAMLLKQSLFGCLFTRTRMKF GAVTRIG/DLP*ETNPLSSCSLLR DKDPPTTSSPQTHQPKKHLTNF KSGCSPGRARSQSFLSCSSTL
21425	51793	A	21553	134	358	TAMLLTQSLFGGLFTRTRMKFG AVIRIGDLLWEINPLSSCSLLHE KDPPTTSGPQTDQPKKHLTNFK SSCSSPG
21426	51794	A	21554	392	645	

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21427	51795	A	21555	1	1900	MQNALESLSNRIEQVEVRSNEL EDKFFELTQSNKDKKIRIRKYK QSLKEVWDYVYKGNPLRIISVPE EEENSKSLENIFGEIIEENLPSLA RHLDNQIQEAQRTLWKLIAKRS LPRHIVIRLSKVYKTERILRAVR QKHQVTHLTCKESYKLVKVG WKRHFQMMDTKNEQGKIKNEN HLIISIDVEKASDKIQRFMIKTL SKIGIQGKYLNVIAIKYDKPTAN ITLNRK/LESIPSEKLKAFPLRT GTRQGCPLSPLFFNTVLEVLR AIRQEKEIKGIGKEEVKLSLF ADDMMYLENPKDSSRKLLEWI KESNKVSGYKTHVHKSVALLY TKQ*QAENQIKNRNPFIAAKK KKKKKKKKRNSRIYLTESK DLYKENYKTLKEIHDNMNKW KHIPCSWMGRISIVKKL*LQKA IYKLNAILIKIPPLFFTELEKTLK FIWKSNSIRIAKVLSKKNKSG GITLPDFKLYTIRKINSKWIKD LNLRPETIQILEDNIGKTLLEIGL GKDFMTKNPKANAKKKTINR WDLIKLSKFCTAKGTVSrvKRT HRVGENLPHYTSIHPTIYTIYTS DKGLISRIYNEFKQIVTRITTCVF LHPPHPKAKTTSYGDQLLGGN
21428	51796	C	21556	10	339	
21429	51797	B	21557	97	1458	
21430	51798	A	21558	1	387	
21431	51799	A	21559	3	604	GSVIAYYWSEFSIPQHLVEEAE RVMAEERVFMPLPPARSLKSFV VTSVVAFRESEGGQWAWDWPP FHGVGLGPGPLQGTGTPRAQCP REKTTTCWPGTSL*IRKQE*GNG LYQEMLYSPSYSSATDSKTVQR TQDNNSCSFGLHARGVELMRFTT PGPFDPSPYPAHARCQWALRGD ADSVLSLTFRSFDLASCDEARS DLV

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21432	51800	A	21560	1000	2084	FRGTPVQRRGGGWADLPGRGCE LGRRLRSEEQARRVHKAPS/DF GTG/LKENTGKVNGLLEEGVEFL PVNNVKKVEKHGPGRWVVL AVLIGLLVLLGIGFLVWHLQY RDVRVQKVFNGYMRITNENFV DAYENSNSTEFVSLASKVKDAL LYSGVPFLGPYHKESAVTAFM WVWREGSVGCTPDWLGVGSG YSVWGTRKREMVLEVLDWRK EGPRCVLLEGSVIAYYWSEFSIP QHLVEEAERVMAEERVVMLPP RARSLKSFVVTSVVAFPTDSKT VQRTQDNSCSFGLHARGVELM RFTTPGFPDSPYPAHARCQWAL RGDADSVLSLTFRSFDLASCDE RGSDLVTVYNTLSPMEPHALV
21433	51801	A	21561	3	2820	TGALILQKGEIRVINQTTCEPLL PQQTIPRMCMCVGLSGGVDS QVPPGQEGGRQFPLKETNNRK GRLPKRLRPHTWCCYSLECSY SLRCTEDTWEDQKVNGLLEEG VEFLPVNNVKKVEKHGPGRWV VLA AVLIGLLVLLGIGFLVWH LQYRDVRVQKVFNGYMRITNE NFVDA YENSNSTEFVSLASKVK DALKLL YSGVPFLGPYHKESAV TAFSEGSVIAYYWSEFSIPQHLV EEAERVMAEERVVMLP
21434	51802	A	21562	111	465	
21435	51803	A	21563	2	197	
21436	51804	A	21564	359	405	EMQSRED*RK*YL*RIVNCVPL RERLGYVCGGLGERSKEGTLWI YQGLQKSQDTGRV
21437	51805	A	21565	208	287	IVSRSEKGVVMYVEGWEREAR REHYGYIKGYKNHRIHMMQSS KALV*LEDLRKH*IFRCVFSNP QVILML
21438	51806	C	21566	141	305	
21439	51807	A	21567	170	973	RMAACRALKAVLVDLSGTLHI EDAAVPG/AQEALKRLRGASVII RFVTNTTKESQDQLFKRLRKL G/VDISEDEFTSLTAARSL*AR KQVTPMLLDV*SGHYLIFKGIQ TSDPNAAVVMGIGTRTFSLSKF WNQAFRLLLGWSTSDSNSQSQ GFQEFKMGMLALGPWTIL*LL*K YATDTKATVVGKPEKTFFLGSI AGHWLLNLEEAVMIG/DDCRG VDVGAQDVGMGLVKTGKYR ASDEEKINPPPYLTCESFPHAVD

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21440	51808	A	21568	42	211	
21441	51809	A	21569	92	366	AGSEMRPGLTWACSLARLLSP SFIKHWFLSCLSCSRSSGSYA QWCPPHQSAAGHCQTPAHA QAYLSPPQMDHSSVRSLEAC QTY*SASAAAGHCQTPAHQAQY LSSPPQMDHSSVRSLEACQTY
21442	51810	A	21570	1	834	
21443	51811	A	21571	3	835	
21444	51812	A	21572	1	1649	MPIVLVDWSDIREQKRLMVLV ASVALHGRSVTLYEKAPLSEQ CSKKAHQFLADLASILPSNTT PLIVSDAGFKVPWYKSVKLG WYWLSRVRGKVQYADLGAEN WKPISNLHDMSSSHSKTLGYKR LTKSNPISCQILLYKRSKGRKN QRSTRTHCHHPSPKIYSASAKEP WVLATNLPVEIRTPKQLVNIYS KRMQIETFRDLKSPAYGLGLR HSRTSSSERFDIMLLIALMLQLT CWLAVVHAQKQGWDKHFQAN TVRNRNGSLTNWPSVPPTIKE EENSEEELAAATTSKEQEPIGTD LDAVRTPELEFPKREDQEGS PPETSLPYKWVVEANLLIPAV GSSLSEALDIESDPDAWCDLS KFDLPEEPSAEDSINNSLVQLQA SHQQQVLPPRQPSALVPSVTEY RLDGHTISDLSSSRGELIPSPS TEVGGSGIGTPPSVLKRQRKRR VALSPVTENSTLSFLDSCNSLT PKSTPVKTLRFS/PSQFLNFWN KQDTLELESPSLTTPVCSQKV VVTIPLHRDKTPLHQKHAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: In US 5,409,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
21445	51813	A	21573	59	2384	PRPGSRSLCRRAGERGAVRAG GMSRRTRCEDLDLHYQDTS DVPEQRDSCKKVKWTHEEDEQ LRALVRQFGQQDWKFLASHFP NRTDQQCQYRWLRVLNPDLVK GPWTKEEDQKVIELVKKYGTK QWTLIAKHLKGLGKQCRERW HNHLNPEVKNKSCWTEEDRIIC EAHKVLGNRWAEIAKMLPGRT DNAGKNHWNFTIQK/RKGDGT GFLREYKD*KPPVYVLP/LEEDK DGLQSAQPTGQRSLLTNWPVS PPTIKEEEN\SEEELAAATTSKE QEPIGTDLDAVR/TP/EELEFP/K REDQEGSPETD/SLPYKVVVE AVNLLIPAVVS/SLYEALDLGS/ DPDAWCDLSRFDLPEEPSIEDSI NNSLVQLQASH/QQQILPPRQP SAILVPSVTEYRLDGHITISDLR SSRGELIPISPTSEVGG/SGIGTPP SVLKRQRKRRAVSPVTENSTS LSFLDSCNSLTPKSTPVKTL/PFS PSQFLNFWNK/QDTLELESPLA DYPPQVCSQKV VVTPLHR/DK TPLHQKHA/AFVTPDQKYSMD NTPHT/PTPFKNALKEYGPLKPL PQTPHL/EEDLKEVLRSEAGIELI IEDDIRPEKQKRKPLRRSPIKK VRKSLALDIVDEDVKLMMSTL PKSLSCRTTAPSN/SSTLTLSGIK EDNSL/LNQGLLAGPSRKAAC VPEGPESHFHGQLAPYVPVPGK
21446	51814	A	21574	190	889	SLPRRLESPGRLAMARGVIAP VGES/LCRYAEVPCSPSAKRDPDA DVDQQRVLVRSLIAVGQGVAAAL AFAG/RYALRIWKP/LE/QVITET AKGRFQTPRFSSY**GG/FLNII* LRREA/GLIGVSP/SAGKAKIRT IAHR/RVMILESPQIKGGSPYVA AKINEAKD/LLETTTKRLMLKD HTEGKKNEGTSKKKSPAKYS KTWSFLIFYMGFDHSLIFRPLSC ITNKMLIVLLFIIF

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21447	51815	A	21575	2	652	EGYIC/RHFTGSSALLTRTHITY GVIANVAVVRINSPNS/RMLAA CKTLQEVTLQSQEAQRIVEKLE KSTKPIVAAINGSCLGGLLEVAI SCQYRIATKDRKTVLGTPEVLL GALPGAGGTQRLPKMVGVPAA LDMMLTGRSIRADRAKKMGLV DQLVEPLGPGLKPEERTTIEYLE EVAITFAKGLADKKISPKRDKG LVEKLTAYAMTIPFVRQQVY
21448	51816	C	21576	98	316	
21449	51817	A	21577	35	247	
21450	51818	A	21578	1	2391	LQLKMVACRAIGILSRFSAFRIL RSRGYICRNFTGSSALLTRTHIN YGVKGDVAADRINSPNSKVNT LSKELHSFFSEVMNEIWASDQI RSAVLISPKPGCFIAGADITML AACK/TLQ/ETQLSQEVAQR/IV EKP*KSPQSLIVGCPNSGSCGLGR RTLRLPISSPQYRIATK/DSKTVI *VPPEV/VLGGPLPGRQGGHTK GCPKMGVCLPAFGHECLTGR SIR/ADRAK/KMGLVD/QLVGTP GTQGLKPEERTTIEYLEEVANTF AKGLADKKISPKRDKG/LVEKL TA/YAMTIPFVRQQVYKVKVEEK VRKQTKGLYPAPLKIIDVVKTG IEQGS DAGYLCE SQKFELVMT KESKALMGLYHGQVLCKKNKF GAPQKDVKHLAILGAGLMGAG IAQVSVDKGLKTLKDATLTAL DRGQQQVFKGLNDKVKKKAL TSF/ERDSIFSNTLGQLDYQGF* KRPDMGELKAVF/EDP*SLSHR VLKGVGSR*FPDHWYSLPSNT SALPISIEAAVQOKT*EG*LGMH YF/SPVDKMQLL/EIITTEKTSKD TSASAVA/VGLKQKG/VII/VVK DG/PLGLVVTYQGVFAPMMS/VI RILQEGS/VDPKKLGPWTTTSFG FPVGAATLV/DEVGCGMLAK HVVAEDLGKVFGEVFSGGNPE L/LTQMVS KGF/LGRKSGEGLLT SSGRVVVKRILNSTMD/SI*ASL
21451	51819	A	21579	119	387	VEDSKEIFSSA*DYLSTHSHKHP ASHESYHVNPNLCNPVAPTSGA HSIV*KWPSWLGTVAHSCNPN FGRPRRADCLSSRSSRPAPWPT
21452	51820	B	21580	73	3177	

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21453	51821	A	21581	1399	5140	SGEPERALRGAAMRPSGTAGA ALLALLAALCPASRALEEKVC QGTSNKLTQLGTFEDHFPQPS QRMFNNCEVVVLGNLEITLCE NYDLSFLKTIQEVAGYVLIALN TVERIPLNLQIRGNMYYENSY ALAVLFNYDANKTGLKELPMR NLQEIHLGAVRFSNNPALCNVE SIQWRDIVSSDFLSNMSMDFQN HLGSCQKCDPSCPNGS/CWGAG EENCQKLTIIICAQQCSGRCRG KSPSDCCHNQ
21454	51822	B	21582	82	305	
21455	51823	A	21583	122	219	YAKRIYDVVVYHTAYTCTFHA *KIRGMTQ*NW
21456	51824	A	21584	404	1228	GLAAFLARAGRRRKELPGSPR PLPQLPAGGSPRWARMRPSQR RPPTLPMAASPAHWPRESLVLY HWTQSFSSQKVRLVIAEKLVC EERDVSLPQSEHN/EMPWFMR NLGEEV/PVIIHRDNIQ/CTMDQ IHLTMWERTFHRERHVGALMP EVGSRAA/PRVLQYRELLDALP MDAYTHGCILHPELTTDSMIPK YATAEIRRHANATTDLMKLD HEEEPQLSEPYLSKQKKLMAKI LNEHDDVSYLKKILGELAMVLD QIEGGAGRRKKLENE
21457	51825	A	21585	3	1194	KNLSVKLSENGTLKNCVVADS ETDIDVYMYTRVYVYIPRIENS WNDTIKLVGTATISAVGGDIDA QGEWAFPLLGIPSLSPGPEWKV RVVIPDKGLVCEERDVSLPQSE PKPEWFMRI NLGEEV/PVIIHRD NIISDYDQIIDYVERTFTGEHV ALMPEVGSQHARVLQYREL DALPMDAYTHGCILHPELTTDS MIPKYATAEIR/SDI*PNATTDL MKLDHEEEPQLSEPYLSKQKKL MAKILEHDDVSYLKKILGELA MVLDDQIEAELEKRLKENEGQK CELWLGCFAFTLADV/SLGATL HRLKFLGLSKKYWEDGSRPNL QSFFERVQRRFAFRKVLGDIHT TLLSAVIPNAFRLVKKRPPSFRR ASFLMGLSGMGMYFALHGTSR

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21458	51826	A	21586	1	929	MDPSIYFLPSKREGHLQAYIRDS VPEDPLILIFFSASSDQRPWLKA PHLPALRGFRGGGAGGGAQSR TTEDYVAWAKGNSPTSPSPRSR GGCSAKLSGPRRP RP RPGR LFN MAASANSVSRWRTESPEGLE SLHSTLSAISVSRPEGGAELSD TADTMGFGDLKSPAGLQV/PTI TWRTRATSRGMCHHKQMWQY LKPCPAHRLPTCVMPYV/GYNH IKSYEKEKASLPGVKKALGKYG PADVEDTTGSGATDSKDDDDID LFGSDDEEESEAKRLRE/DTSC TI*IKESQKTCTCCQVFHLTRCE
21459	51827	A	21587	1	2405	MALRVVRSVRVLCSLHVACE KVGMQIPRFCYHERLSVAGNC RMCLVEIEKAPKDQSMFMFGND RSRFLGKRAVEDKNIGPLVKT IMTRCIQCTRCIRFAEIAGVDD LGTGGRGNDMQVGTYIEKMFM SELSGNIIDICPVGALTSKPYAFT ARPWETRKTESIDVMDAVGSNI VVSTRTGEVMRILPRMHEDINE EWISDKTRFAYDGLKQRQLTEP MVRNEKGLLTYTSWEDALSRV AGMPALALQSAEIAASARPPP RLGSEEPCLCLAAHRLGCEEPLC LAASLESEERLCPAAIPPGNLRY VFISAKTDKYSKLAPVEWVTV EKVPENVEVTELEGNRQSRDR VSRI PGNAIWIWFTGFKWKKT TTLWFLNLAIDFIFLLFLPLYIS YVAMNFHWPFGIWLCKANSFT AQLNMFASVFFLT/GDQPGPLY PLDPSCLISSASNPQELSDCHYI HLAFGFSNWRSCPVLPGHCGV Q*SYSL*QFSEA*S*PHFDQAP CSDLGEIYHWLSLPFANNEYLL LVSHLQGEAEKHPDLQ*AFLDN SGCGGLCGLLDSLSPV*HLGA HHSPQ*LFPPCDAGWNPLHWF GIPQ*LLEPHPLCPN**EVPSSL VLSC*DTQVHTVGSQLFVQVL KEAKKPMVVLGSSALQRNDGA AILAAVSSIAQKIRMTSGVTGD WKVMNHLHRIASQVAALDLGY

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21460	51828	A	21588	1	2065	MLRIPVRKALVGLSKSPKGCVR TTATAASNLRVVFVDGQSLMVV EPGTTVLQACEVRIGMQIPRFCY HERLSVAGNCRMCLVEIEKAPK DQSMFMFGNDRSFLFEGKRAVE DKNIGPLVKTIMTRCIQCTRCIR FASEIAGVDDLGGTTGRGNDMQ VGTYIEKMFMSSELSGNIIDICPV GALTSPYAFARPWETRKTES IDVMDAVGSNIVVSTRTGEVM RILPRMHEDINEEWISDKTRFA YDGLKRQRLTEPMVRNEKGLL TYTSWEDALSRVAGMLQSFQG KDVAIAAGGLVDAEALVALKD LLNRVDSDTLCTEEVFPATAGA GTDLRSNYLLNTTIAGVIEAD VVLLVGTNPRFEAPLF*CEFR KSWLHNDLKVVALIRAVPVDL TYTYDHLGDSPKILQDIASGK/ SHPFSQLKEAKKPMVVVLGSS ALQRNDGAAIALAVSSIAQKLR MTSGVTGDWKVMNHLHRJASQ VAVLADLGYPKPGVEAIRKNPPK VLFLLGADGGCITRQDLPKDCF IITYQGHGHDVGAPIADVLPGA AYTEKSATYVNTGRAQQTQV AVTPPGLAREDWKIIRALSEIAG MTLPYDTLDQVRNREEVSPNL VRYDDIEGANYFQQANESKL VNQQLADPLVPPQLTIKDFYM TGEVTEINEALENPGLVNKSR YEDGWLKMTLSNPS

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21461	51829	A	21589	56	2352	ATRPPRGSSWCRQFSRTASAAP GRSNMLRIPVRRALVGLSKSPK GCVRTTATAASNLIIEVFVDGQS VMVEPGTTVLQACEKVGMQIP RFCYHERLSVAGNCRCMLVEIE KAPKVVAACAMPVMKGWNIL TNSEKSKKAREGVMEFLANH PLDCPICDQGGECDLQDQSM FGNDRSRFLLEGKRAVEDKNIGP LVKTIMTRCIQCTRCIRFAIEIA GVDDLGTGGRGNDMQVGTYIE KMFMSLSGNIIDICPVGALVTS KPYAFTARPWETRKTESIDVMD AVGSNIVVSTRTEVMRILPRM HEDINEEWISDKTRFAYDGLKR QRLTEPMVRNEKGLLTYTSWE DALSRVAGMLQSFQKDVAAI AGGLVDAEALVALKDLLNRVD SDTLCTEEVFPTAGAGTDLRSN YLLNTTIAGVEEADVLLVGTN PRFEAPLFNAWIRKSWLHNDLK VALIGSPVDLTITYDHLGDSPK ILQDIASGSHPPSQVLKEAKKP MVVLGSSALQRNDGAAILAAV SSIAQKIRMTSGVTGDWKMNI LHRIASQVAALDLGYKPGVEAI RKNPPKVLFLGADGGCITRQ DLPKDCFIHQGHGHDVGAPIA DVILPGAAYTNKSAITYVNTG *ASASIMLAVTTPLGSRWDKI IRALSEIAGMT/LFPYDTL/DIQV RNQIGKSSPNLVIRYDDIEGVA
21462	51830	A	21590	246	761	MRLQGAIFVLLPHLGPILVWLF TRDHMSGWCEGPRMLSW/CPF LQSLICLLQTAIRYSVVG*VLVS HTWPWYPMGWQVLYI*ITYA VQLTISWTVLVLFFTVHNPGLV RHTVLSSRSNVGEGTTWLQK HILAALLLPYLAWLTVTSALT YHLWRDSLCPVHQPOPTKSD
21463	51831	A	21591	I	1497	
21464	51832	A	21592	I	1731	

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21465	51833	A	21593	1	6626	PRSLCFSLWAEAAVLADGGLR RRRRLLRGTMASAFVPNGASLE DCHCNLFCLADLTGIKW*KYV WGGPTSAPILPVTEEHPILSSSS RCLTAHVLGVRRRDQRPERR L*IFWWGEDP\VLTLFTMTYQ KKKMECGRMDFFPMNAVLCFS KAVHNLLELCLMNRNFRIGK WVVKPYEKDEKPKNSEHLS FTFFLHGDSNVCTSV EINHQP VYLLSEEHITLAQQSNSPFQVIL CPFGLNGTLTGQAFK
21466	51834	A	21594	1263	1906	AVRGMVRNARAVLTKGGTFLS PALEPLVAGGSGG/EFSQLGAEE RKAIARF/AIDHVDRRVPVLI GG/TNARETIELSQHAQQAGRT ASTIDSV AHLRSMIHTVK/GAHP HFTVLCGYDDHLF/NTLLGGD GAISASGNFAPQVS VNLLKAW RDGDVAKAAGYHQ TASIPDQLI HPYESRLFKCQHVLTRGITSF*L LCPPGSLRRQGISTYHSLHN
21467	51835	B	21595	113	484	
21468	51836	A	21596	300	780	KSGTNETIRRKARGGKIKMDD LRG/PRCQ*EPWKRLMTIMPS CLHLWAQNTTVSILSFVDKDLL EPGCSVLLNHKVH AVIGVLM D TDPLVTVMKVEKAPQETYAD IGGLDNQIQEIKESVELPLTHPE YYEEMGKPKPGVHPFGPTWPR VKPFCPRQ
21469	51837	A	21597	2	840	AIEHCQSGDNPESTRRGFLQW LGRNPALVPHPGRTGHSQPPVT FHRHPSDCQSPAGRFKGGPSH RGQPPPFHKSPMTTASHLARC ARTYHQDSEAAINR/QINLELY ASYVYLSMSYYFDRD/DVALK NFAKYFLHQSHEER/EHC*ENL MKACRTNEGWP NLSFQDIKET KTCDWESGLNA/ME/CALHFE KKC*KISLLELHKLAATDKN*PP ICVDFI*DTFTLNEQ/V*KAIKRI WGDH/V*PKLWRKMGSA PN LG FGEYLF*QSTPWGSDNES
21470	51838	A	21598	3	390	

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21471	51839	A	21599	1	483	FQLEVPQNITLNPFGGPPVFS WRDQAVLRQDGVVVTINKKR NLVVSVDGDTFEVVLHRVWK GSSVHQDFLGFYVLDHRMSA RTHGLLGQFFHPIGFVSDIHPG SDPTKPDATMVGLQKDYSKDP WHGAEVSCWFIHNNAGLIDG AYTDYIVPDI
21472	51840	A	21600	1	1521	
21473	51841	A	21601	1	837	
21474	51842	A	21602	3	310	EVRLNLSQALRMWLDYGFVT PLTSMISIRGMADQDGLKPTIDK PSEDSPPLEMLGPRRTFVLSALQ PSPTHSSSNTQRLPDRVTGVDV* VVT*PYVLCWNL
21475	51843	A	21603	62	462	MPLPLPSAFVLSALQSPHSS NTQRLPDRVTGGFSVNGQLIGN KARSPGQ\HDGTYFGRLGIANP ATDFQLEVPQNITLNPFGGPP VFSWARDQAVLRQDGVVVTIN KKRNLVVSVDGDTFEVVLHR VWK
21476	51844	A	21604	37	2883	SMDGAMGPRGLLLCMYLVSL ILQAMPALGSATGRSKSSEKQ AVDTAVDGVFIRSLKVNCKVTS RFAHYVVTSSQVNTANEAREV AFDLEIPKTAIFISDFAVTADGNA FIGDIKDKVTAWKQYRKAIS* EKA\GLVRASGRTEQFTIHLT VNPQSKVTFTLTYEEMLRNHN MQYEIVIKVVKPQLVHHFEIDV DIFEPQGISKLDAQASFLPKELA AQTIKKSFSKGKTSNGSHSRRF QGHVLFRTPTVSQQQ
21477	51845	A	21605	1	1008	
21478	51846	A	21606	1	435	
21479	51847	A	21607	1	676	IRHQGAAQEGDAETPGSVERR GRRAGAEDGMSQAPGAQPSPP TVYHERQRLCAVHALNNVL QPAA\FSQEADEICKRLAPDSR LNPHRSLGTGNYDVNIMAA LQGLGLAAVWWDRRRLVPS WPCPKGLG*ILNLPSPVSLGLL SLPLRRRHLRWPCARL/VTVS YNLDSK\LRAPGPGGLRTE/LR GLSLAAALAQGLCEVLLVVT EVEEKGSWLRTD
21480	51848	A	21608	89	316	ELLSPLLVAAGPSDLTVTGLKSF SSPSLCSLNTLAGTSRLMVA*L YESLGQGEDLGLLTPGPEFLSIS SYCNFM

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
21481	51849	B	21609	1	1920	
21482	51850	A	21610	1	1727	LPRVLGHSGRGGLSSRRSQGL VSRFRLRALCAGSDMWRLPG LLGRALPRTLGP/SLWRVTPKS SSPDGPQTTS/LLVPVNLDR SGPHGPGTSGGPRSHGWKDAF QWMSSRVSPNTLW/DAISWGTL AVLALQLGR/HHFQAF/LAAGPA KRVE/HCS/WHSP/LDRFFSSPL WHPCSSLRQHILPSPDGPAPRHT GLK/ENPRLGKE/EAQAQRNFS HNSLRGARPIQDPSEEG/PGDFG FLHASSIESEAKPAQPPTGEK EQDKSKTSL/EEAVTSIQFLQFL SVSIAFNFLGNQMDPAPRQEGT ENMKSGDHTAAFSYFQKAAAR GYSKAQYNAGLCHEHGRGT DISK/SV*KAGLYYQLAASQGH SLAQYRYARCLLRDPASSWNPE RQRAVSLLKQAADSGLEAQA FLGVLFTEKPY/LDEQRAVKYL WLAANN/SDSRYHLGICYEK GLGVQRNLGEALRCYQQAAL GNEAAQERLRALFSGMA/ASPG APTNLTVTGLKSFSSP/SLCSLNT LLAGTSR/LPHASSTGNLGLLC RSGHLGASLEASSRAIPHPYP LEKNVVRLGFG
21483	51851	A	21611	1104	1680	LATPDVRYCYLSTY/SLPNPAR RFFFLSLCCKFS/SHK/TATVKK YNKSEYPWDLVK/AHLQGAFTS NITFDISELQNKILD/LNRHTQEF QPSLEDWTEFQEGLES/LNPWTY LKYHSNLYVVLGVMLFCLCLL FIVCKIGWTANRRMRAA/QPGL TFFQLIHKQGD/MDQGAEGP/WDV TNSAFHWRLYDQ/TANCLS
21484	51852	A	21612	364	824	LCILFKQLSTWRTGCA/QPTKR GYTELQTEGPM/LKSMFLWLGE QVQILQL/HSNCIVILTTLV/FCV TNLE*FIVCKIGWTANQK/MGA AKPGLTFFLLICK/QKQDGM*GA KGPWDVINS/AFH*RM
21485	51853	C	21613	196	504	
21486	51854	A	21614	3	142	

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21487	51855	A	21615	1178	2285	IVWLMTGGQCRCY*LSALIKL* DR/WFQRLCIHVQRLRPVHAH LYLQPGMEDGNSFRQMFSTR SLHIPTRDLPSPDITTVLHQVY NVLLGLLSRAKLYVDAAVHGT TKLVVPYFSFMTYCLISKTEKLM FSTYFMDLWNLFPKLSEPAIA TNHNKQALLSFWYNVCADCEPE NIRLIVQNPVVTKNIAFNILAD HDDQDVVLFNRGMLPAYYGIL RLCCEQSPAFTRQLASHQNIQW AFKNLTPHASQYPGAVEELFNL MQLFIAQRPMREEELEDIKQF KKTITISCYLRCLDGRSCWTTIIS AFRILLESDEDRLLVVFNRLIL MTEGKDVTFMIVCC*TTSFIISS SIYYAELQSTVKNLLKH
21488	51856	A	21616	1	436	
21489	51857	A	21617	369	508	
21490	51858	A	21618	2150	3120	DLRALALLSVHTPKQLNPALI PTLQELLSKCRCTCLQQRNSLQE QEAKERKTKALAWTTITFRV GGGNTLGVTLGRVVCSEAEPK YKC*KQN*LPTSPPNVILMTFRE VSLLACVFDDDEGATPIKRRRV SSDEEHTVDSCISDMKTETREV LTPTSTSDNETRDSIIDPGTEQ DLPSPENSSVKEYRMEVPSSFSE DMSNIRSQHAEEQSNNGRYDD CKEFKDLH/CSKDSTLA/EEESE/ FPSTSISAVLSDLADLRSCDQQA LPSQDPEVALSLSCGHSRGLFS HMQQHDILDLCRTIESTIHVVTT RISGKGNQAAS
21491	51859	A	21619	2	4049	EEENGREYKFDVSSLELWIIH DNMQFLQDKNIFEHTYFGFMW QLCSCIPSTLPDKAVSLMTAK LSTSFVLETFIHSKEKPTMLQWI ELLTKQFNNSQAACEWFLDRM ADDDWWPMQILIK/CPNQIVRQ MFQRLCIHVQRLRPVHAHLYL QPGMEDGSDDMDSVEDIGGR SCVTRFVRTLLIMEHGVKPHS KHLTEYFAFLYEFKMGEEESQ FLLSLQAISTMVHFYMGTKGPE NPQVEVLSEEEGEE
21492	51860	A	21620	58	219	

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21493	51861	A	21621	195	1187	RVPRTWLLPSFCASRSRENEGL SEFGASQVTVPSPASSVQAWEA MEPEFLYDLLQLPKGVEPPAE ELSGVCKKYLPTSRKDPKFE ELQKVQQEWINATLLPEHIVVR SLEEDMFDGLLHHLFRKWAAL KLEAEDIALTASQKHKLTVVL EAVNRSICSWRSGRPSGA/WEST WNKDLLSTLHLLVALAKRFQ DLSLP/D/HTNVQVEVITIEVAA NFVNQKLDRLGLSVQNLDTQV GTGVILLLLIGQLEGFFLHLKEF YLTSPNSPAEMVSFVTLAELL/I GRGPAQLPC/LALKVSAT/MDA KSTLRVLYGLFCKHITQKAHRD RTPHGAPN
21494	51862	A	21622	96	1350	AAGLLPPGLVPEDPRRTNRNLLP FGIQGPPFALSRLPFCVSESGWA WEAMEPEFLYDLLQLPKGVEPP AEEELSKGGKKYLPTSRKDP KFEELQKPA/VLMEWINATLLP EHIVVRSLEEDMFDGLLHHLF QRLAALKLEAEDIALTATNQK HKLHWCWRP*TGVCSSWRSGR PSGA/WESIFNKDLLSTLHLEA LAKRFQPDLSLPTNVQVEVITIE STKSGLKSEKLEEQLTEYSTDK DEPPKDVFDLFLAPEK/LNA VKEAIVNFVNQKLDRLGLSVQ NLDTQFADGVILLLLIGQLEGFF LHLKEFYLTSPNSPAEMLHNVTL ALELL/IGRGPAQLPC/LALK/TI VNKDAKSTLRVLYGLFCKHIT KAHRDRTPPWSPELTLTASKAQ SLPVSPAGGPEAAGCPPTVPLFP
21495	51863	A	21623	1	87	
21496	51864	A	21624	45	277	
21497	51865	A	21625	171	511	GKFRYPALHSWATRLRTSTAA GHCCMNSSQNKLSSKSWAMTR HALNVKRFITFQSHQCSLSKKV NLSLFQQAERLPSQELTHLL QEVRC*RDFFPEEATWTGLPV LPSQ
21498	51866	A	21626	276	387	
21499	51867	A	21627	1	218	

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21500	51868	A	21628	139	9009	ESSEDSVSGGLPFLVDLGFSSVC VSLFHVKNPVQWDQKLPKKKK PVRSYCGSKLLQREVIQPDVME EMVVSVCVVKHLNLVDALQSLN FQYQEEHAEEYDLCKIMGETF KKLNAMERQLQNKMKLELLC SMKEVSFDGNDLENMVLRLRE KFLQEVNSLIQKPSHPAKTKT LVKSLMNRAELLHVITIAAQSG LTRSISGTPAETPACKSASETKV ISHAVRQPVFLRMSAPSDLEMI GNEDLEFTRANQRR
21501	51869	A	21629	1697	2056	
21502	51870	A	21630	237	1545	KPENKKSRTGRNRTKSTPGYRA /RPAAATARISARSTK*WKNSL AGRWARHICWTLWALIPRITLR /HVMAGFPQRMQKDYRDAID ALCDANRFGQKKRLGFWRYKE DSKGVLGCSYLLIGFYITDPKN GAAAMKAFVVTRVGDVFLAFA LFILYNELGTLNFRMVELAPA HFADGNMMLMWATLMLLGGGA VGKSAQLPLQTLWADAMAGPT PVSALIHAATMVTAGVYLIART HGLFLMTPEVLHVGIVGAVTL LLAGFAALVQTDIKRVLAYST MSQIWLRCSSRLACRHGCGGSL ECLQHEGIPYSRMGRPHHTSAL RRFTSEFGMGSAFTLGYYFFMY KQAVILLMLFTASVSAACLTPI AIDHGTGPAELLTVALRYNLS SYDAAYLELALRLLEPIAKGSPN FAFRRAATGNEGIMHFLRNK GILWI
21503	51871	B	21631	1	1440	
21504	51872	A	21632	525	716	PKTPAGPVEPMHQVPSSKRVP RDKRTRGDSRHSQSKPTKRY NHAYEI*PRIKWFIPDAGC
21505	51873	A	21633	8	136	
21506	51874	A	21634	1476	1611	GCDPAPGLPAPPHT/QP/DH*NQ RQIGIG*FLTGTVPATHLRQLA AA
21507	51875	A	21635	461	827	AALQMRDTSADPCGEQSVCG YSEPVPEYACFHRIQDLHDTE AACFSHAGSGRTHV*SQSEHAA GSVLWSYRYRC*TTGATGYTDR FSQQRCHVRRGISPRCWPEYQS RSWCRLFPSPESAG

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21508	51876	A	21636	1	3735	MAEASVFQTVDPWRPGFATIPD FLKERYDKTTRIIIDFCFLIATGV CFLPIVLVYSGALALNSLPHVGES LQISHGAAIWLLVILLGLAGILY AVIGGLRAMAVADSSINGILVI GGLMVPVFGLIAMGKGSFMQG IEQLTTVHAEKLSIGGPTDPLP IGAAFTGLLVNTFYWCTNQGI VQRTLASKSLAEGQKGALLTA VLKMLDPLGLKPDLLAYNTAL RALIPQRLIAFDDAVRSTLKEEE KLVNSSDWGY
21509	51877	A	21637	840	1064	WSVENYIIRRGYGGHIPLPAASP AVAAQWCDAGR*VPPAARRW HRHQVYLTYLITLDRGLSRARF CIPSAHCSAY
21510	51878	A	21638	979	1409	RLVVDIFHDNRHAFPRRLVSDA AAHNACTQHRGLFRGFNVFGE FLRFAYILIVKENADQCAQFV GMRQRDKTFVQV*GFFTTKT GRSFNGFYCGDGGRI MF/LPLFV RP SL*RW*SSWWLQSCSVLVVP ASADVLLSSRRGR
21511	51879	A	21639	903	1397	LP TLPM MVCTTPTSSRKHWM *NPSTLT/HAWVPYTNFSPYIEG KCGMSGARVEGKVIYETQSTH KLLA AFSQASMIHVKG DVNEE TFNEAYMMHTAASPHYGIVAS TETAAMMKGNAGKRLINGSI ERA IKFRKEIKRLRTESD G WFF DNAAGYIDTITLGGPS
21512	51880	B	21640	1	5305	
21513	51881	A	21641	129	723	LITARGQVADNRDLAPWV PDAPSRALPEMTLDSRVAAAV DLFVARIGHQADGRRIYIPQAI QGVAAIIAEAKDEATDGEIREM HGVPDIYLSQLNELLALAGRC YHEPSDNLRLVGVGTGTNGKTT TTQLLAQWSQLLGEISAVMGT VGNLLGKKKEKAAIQYNTLC KSC T LTHPKPHNESDH/IRCRC*

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
21514	51882	A	21642	1	2230	MMRTSGGTRDNESSDDDERER ENRLSDEKSNEYANLVGGERY EPDEENPMLGFRGAGRYVSDSF LRLCSSLEIVKARETVAIQGLK HDL LADDTALRALIPQRADRF MNAVSTLKEEEKLVNSDDWG YDAQAFARWRPEYGYFAKQA GFTVKTSASLAALWQVVNQIG GKERYFFGNLWQTRALMDRAI GHKLAKGRPEREYLQTGDAVD SWKVIVVEPEKQLTLFGMKAP GLGRLCFSLEDKGDYRTIDVRA FWHPHGNRAEREKPRFPYSRR KSFIGNMLLPMSIMPPVFRRI CPLGVARLGKFRDPVYLVCVFT RQIFRYTSGDEF LQINTTGGED IDDIDDIKLFVYEESSYGISKESH WREAINAKAMGAMTLNWQEK RWQRRFFNSEEPGNIEPVYMLEK VENQNHAKWEVHNFTMGYQR QVTEDTYEYLLNVVGVPPVD NIHPMTKDEAGVWSWRTPIK GNLYEYFFNV DGVRSIDTGTA MTNPQRQVNSSMILVPGSYLDT RSVAHGD LIAITYHSNALQSER QMYVWTPPGYTGMGEPLPVLY FYHFGD TGRSAIDQGRIPQIM DNLLAEGKIKPMLVVIPDTETD AKGIIPEDFVPQERRKVYPLNA KAADRELMNDIPLISKRFNVR KDADGRALAGLSQGGYQALVS GMNHLESFGWLATFSGVTTTT

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21515	51883	A	21643	1	1549	MDASGHHVVRGFASGMGCCRV RRTMKRETGGGRLAGFRLVGT LGQHLGAHRSASKGHQILAA RHVDRLLAK/LQLA/NVSCHEVD LSWPDNLALLQDIDITVYFLVH SMGEGGDFIAQE/RQVALNVRD ALREVPVKQLIFLSSLQAPPHEQ SDHLRARQATQ/EIRSEGNVP/V TELRAEIIIVGAGS/AAL/EVMIRD MVYNLPVLTTPRWVRSRTTPIA LENFLHYLVALLDHPASEHRJF EAVAGPEVFSYQQQFEHFMVAVS GKR/RWFDPPSP/LPT/RWISVWF LNVITSVPPTTARALI/QGLKHD LLADDTALRALIPQRLIAFDDA VRSTLKEEEKLVNSSDWGYDA QAFARWRPEYGYFAKQAGFTV KTSASLAALWQV/VNQIGGKER YFFGNILWQTRALMDRAIGHK LAKGRPEREYLTGDAVDSWK MIVVEPEQQR/LT/LFGMQAPGL GRL/CCFSLQEDKDYRTID/VRA FWHPHGMGP/L/*F*WLLMIPAH LFIFRGMMAKQIARLAVPSTDLD
21516	51884	A	21644	201	363	SLRGSRTAASPCWAVP/VHVP HGAGEPAHHPGHP/LPPPHPH VLLPLQPVLA
21517	51885	A	21645	3	440	PFSLPFSLGLTASLFMNTWLAIS SNCDGFIPASPAFCFSLMSSA L*RTKAM*IMC*FSGLSGSGKV YIR*ASHLS*NCAGLSSFP*MT SESLLTFVAF*APL/NPSKRASLS RFSLCISLSCSNWGSVPGNW VLPYSWGF
21518	51886	A	21646	359	543	VVTPDSGSSH*KANSFCLSGAN LMLKKASFRSKQVNLSSAGS NPSNMYGLTVGCKVTVA
21519	51887	A	21647	2	582	
21520	51888	A	21648	3	574	
21521	51889	A	21649	1	195	LCVFFVLVSFFLSPLDSQLAVV C*FDGTIGIMY/LTSAVSPPPRN GVVASVMAVAVTPMLNLFICS
21522	51890	A	21650	2	457	
21523	51891	A	21651	21	545	PPCTSLRPLHAFSGMKTHLNRG TLSLDSQLHNLIALQMTCFKD VEIPNFWEPSTVPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGVGGYLGSDVSSSP RKRAVASVMYTVTPMLNPF YSLRNRDMKSVLRRPHSSAV

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21524	51892	A	21652	899	1039	LWTSSLTAESSPMRAA*LRETSI VSAASRAFSALSSSALRAFSAC
21525	51893	A	21653	804	1390	QGTIILKVLRLRLRWTWIPSRASL RTGYCFCLTGWTPGLTSISTGA WLTANPGGLSSAHTLGHRLAR AGLISWPGSVKKSLSHSSRGSIR VIMTPVPGNFSSKEPCSVKEIVA LSLLSKSLPNKGKGQSGMYKN* *ITLCPPIVQVWGKQKACFAET PMAPMMSIVFLDKGATEAVTT ECSALVSTRKSMSPPTV
21526	51894	A	21654	84	730	HLSDSKSQVRYQPSADLSFLLG HYNPQSSRRVLSVLDQLHNL ALQVTCFKDVEIPNFFCDPSQLP HLACCDTFTNKIIMYFPAIFGF LPISGTLFSYSRIVSSILRVSSG GKYKAFSTCGSHLSVVC*VYGT GVGGYLSSDDVSSSPRKAAS VMYTVITSMNLNPFYSLNRNDIK GVLRLQPHGSTVQFYLLICSIPF VVWVKKGSKVK
21527	51895	A	21655	1049	1979	
21528	51896	A	21656	2244	2901	LRCLSLPFLFAWKRDMLLSVM AYDRFVAICHPLYHSAIMNLC VGFLVLLSFFFFLSLSDSQLHN LIALQMTCFKDVEIPNFFWEPS QLSHLACCDTFTNIIMYFPTAIF GFLPISGTLFSYKIVSSILRVSS SGGKYKAFSTCGSHLSVVC*FY GRGVGGYLSSDDVSSSPRKGAV AAVMYTVVTSMLNPFYRLGN RDIKSVLRRPTEHLISKK
21529	51897	A	21657	1	2850	

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21530	51898	A	21658	1	1703	KKMALTSFLPAPTQLSQDQLAE AEEKARSQRSQPSLVSSRRPEP PYGYRKA WIPRLLED F*DRGA FPEIHVAQYPLDMGRKKKMSN ALAIQV DSEGIKYDAIARQQG SKDKVIYSKYTDLVPKEVMNA DDP DWQRP DDEAIIEITEKAIR VAL EKSVSQKVA AAMPVRAA *QIGPLLQYIPIHTISGKGVAIQ T SWS*TRR VIRVMVEMQKDPME PPRFKINKKIPRGPPPPAVM HSPSRKMTVKEQGEWKIPPCIS *LGKMAKGYTIPLDKRLAAD GEEGLQDSYTLNGKFSAKLAE ALYIADRKAREAVEMRAQVER KMAQKEKEKEEKLREMAQK ARERRAGIKTHVEKVYFSTVH TEDGEARERDEIRHRRKERQH DRNLSRAAPDKRSKLQRNENR DISEVIALGVNPRTSNEVQYD QRLFNQSGMDSGFAGGEDEI YNYVDQALIGGKYMAQSIYRP SKNLDKDMYGGDLEARIKTN RFVDPKGVFLVQTRRQREGREP VQFEEDPFGLDKFL EESPTAM GGS/KRPSG*PAAPREHGA WKA RKRREKE
21531	51899	A	21659	2	1588	CLRRALPGSIESAPTAPPPPSGE GSQAYISRLPATLIVILERRQL LGVWRRARCCSLINLAHRRHC GMPTRSPCAILARRYEGRRSPS TVAQPPPPPIELAPSTSETPIQ ATRGHAPQPS/VPPA/PARPPE RPPVPEQGPSGTHPDPTP/PGPT NAPQRPSPAPNTTN*PTRMHM QLPDAA*TPYPA YGSDYL*AR* DATASHQASCTN/SPDAA*TPYP AYAKIERA*ENPVPSAIKIIGRSS SSGRQASPWGMA/SPHWRSWR MGPNNGSGKRPRRAAERISCCRN AQGRTHSQKAYIQQPQCCVN VHLQPPD/PTPAQ/PSQTLSPD S/PAPPLPAYPS/TQHPTAPPTSSP MSS/RIVKHPHQHCGARPGQGG ERDETERKDAKERNRRTATPTT RHTDRLPRTAHGPPPP/PPPPPP PPPPPPRDSRRRPRREKPEQQ KEGGQTGRTOQKETAARRGEER ETGRKKTRGAPPRPAAARRPH ETAETKRPPARQHRPPRRRPS DGETRTRHQLGFI MLGLLSWN

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21532	51900	A	21660	2	192	RVDICSTNYCWLYPMTSGPSF SYV*GP*EEDVRE*MCGRDGL* YLSIGVVCGFICQHHNRAQ
21533	51901	A	21661	783	2119	GSEMPVTVM LTLGEPGHFMSS LGVCWCGVEDEAAPSQSIYIQ RETQVRTPMAGVSPKKAHPCE MCGPILGDILHVADHQGTHHK QKLHRC EA WVNILYDSGNFHR RQNEHIGEPYRGSVEEALFAN RCKLHVSGISHLSSVRV/EKDFL LRSGLLQQAETHTGKSNKTEC VSLFHGGKSHYSCGCMKHFS TKDILSQHERLLPTEEHFVWCE CGKSSSKYDSFNHQGVHTREK PYTCGICGKLFSSKSHLLVHQRI HTGEKPYECEVCQKFFRHKYH LIAHQRVHTGERPYECSDCGKS FTHSSSTRVHKRVHTGQKPYEC SECCKSFAESSSLTKHRRVHTG EKPYGCSECEKKFRQISSLRHH QRVHT/NERAYECSESSLIKYW RIHT*VRSCDCSKCGK/CFQTRS ALLGYWRVHTR/KSPYK*NKFG QFCSHTSVFLQDYS
21534	51902	A	21662	84	437	KMTSTQPVKFSLFASHSVPCGQ SFPGRRAFAFAMPRRRIPSSDHL PEPGQSHQHVNRQRWACRELI AAFLPSSYRL*L VETGGEIGQRN RASCHSPFAGSSPGIFQTEIGKP CLLP
21535	51903	A	21663	69	446	
21536	51904	A	21664	880	1365	
21537	51905	A	21665	1705	2196	RQNQREGDDDDTDQPPRPGTQ MTELFLLIQLMCFMANALRQL VHPL/MGNVHEYFADLKMPAC AVSAFLCAMHRSITSMFE*DNG PGPADADAR/LDMRIQVFMFCA NTL/PARVLQRKNKPGQDHPET AERRAESQRIIEKGLKCIQGGKI VNSISMKEGVDAFIH
21538	51906	A	21666	1	1147	
21539	51907	A	21667	254	557	AADEIGGIAVETVTEDAHLLCG CTVVAIPRICVSAGGGAGDRK SSVRFHQNLAQVHITRGV/VWT MTNSHIITCCATAFGITTSPTSPT ESTGVPCGRRNQH

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21540	51908	A	21668	557	1031	SSRNASGAVRKISRGMPPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRJR*PICADRLSV ASPAACGAYTRRYSHDGATA EKYAHLQSRFRQCCRFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTERSW
21541	51909	A	21669	572	825	QARISTSFRESLPSRHPVPRYR PLEAFWTPCTRGYYRFFSPAR ENAEYRTLKHWAKFLLVRAAF PGASTLCCSPGRTISV
21542	51910	A	21670	303	899	EDNYSGSSLYCFDDVASVQMP GSGNGCRR*CAGKTSG/TWRNS LVRQWLLTAQKKTLLHAVSNL PKTWAQILFSKQVRSLNRH LIW*CAAVKL*LLVLYPAIRQSI SSKSIKSLSRRYFRLLPIGDSM* NRW*RIFTIGMYIGTAL*SDGAI VVCRLCENLPGSFHQRHQRCD AASLAGGSEPIAFSRAGRTPGP
21543	51911	A	21671	1	1320	
21544	51912	A	21672	99	761	IDNAPPDQTTVHAFAANSENHS PPQLPYETPDADPTHQAFSRW RHRPQAYADALLRERLPPTHR HRGQSPDSLTSPLYWRGRKRY RAAPALT*TPPDTLFDSP*PAV PPPVAKELPVTAQRQVHNAMS ANSFVIFHPVKIRNNIVLQPAIAI QRRNGHGVTRCAALHSRHGS LSVARHRVHLPVCRQADDKPA PAPLRPARYCLCPNQSAAVRYL R
21545	51913	A	21673	62	680	SSRNASGAVRKISRGMPPDKKW NMALT*HSR*ANFSPLPVSGLS RRKICTIPRAQRJR*PICADRLSV ASPAACGAYTRRYSHDGATA EKYAHLQSRFRQCCRFHPAA YDESPHRNRRRKWRPTYRCHP APDHRTACLRSAFYGNAPGCV QTGPVRRSGAASAPVFLSG TSPWSEFARTIALVRGRSRKSTR RLWHISAHC
21546	51914	A	21674	411	481	

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21547	51915	A	21675	402	915	RLASKLFTTVTPRGGV GELQAT TRNAAVAGIKRKRNRGRPAEE PELTADRGGQGENEITEAATAAK ARRTMRPKTGNQNPDKHRTRG LQICHFTFNANGNRARCSAANA MAATISGLSSGLSGTGWQETIR PPLAAIF*SSCASNDIHLPKSFLA LPNGTAPLNGLPSIAS
21548	51916	A	21676	1416	1832	GSAPRORHLAGRPPVTTTRPKHV SHHGPQENSAHRLSHVDNESTC IVCGTLRLQHSARYFPPLPETL FLAPVNHSV/EYNWQAAVPK*I Y*HQTFPGRDCQHLLFHFVRKF GVRESI/AQVVAVRAATSAWRY SRSSAITL
21549	51917	A	21677	97	300	
21550	51918	A	21678	756	1179	RRRLSPYCRAAAGSSPSYECF AHQRSVASSRGHTGTTRQFYRE HWFLRCIRRLSGTRLLAYHRFC QPHLACSGKRAVSASSTRSADV AAWYRV/CAKPFSSSS*VQEDL SYLRFSA*P*TVIL*PACRKPGR KRRGQRRWR
21551	51919	A	21679	3	1279	
21552	51920	A	21680	1	2448	
21553	51921	A	21681	317	1985	PNTPLTSKPLLLTHPLTLLTPSA SGWQKTTKLSCVF/PETEKYAH ERLAHHVAQGANQYAPMTGV QALREAIAQKTERLYGYQPD DSDITVTAGATEALYAAITLV RNGDEVICFDPSYDSYAPAIAS GGIVKRMALQPPHFRVDWQEF AALLSERTRLVILNTPHNPSATV WQQADFAALWQAIAGHEIFVIS DEVYEHINFQQGHASVLAHPQ LRERAVAVSSFGKTYHMTGW KVGVCVAPAPISAEIRKVHGYL TFSVNTPAQLALADMLRAEPEH YLALPDFYRQKRDLVNALNES RLEILPCEGTYFLVDYSALSTL DDVEFC*SLTQEHGVAAIPLSVF CADPFPKLRILRIQTAAINLLVN HERRANAVINVDHAEIPFLRIIL PFLRQRQHHAVIDHHPNAELL FQQIFHLHRRCPRRFRHGLRHA GHRINLTVDFQRQVDGMVRPQ FTVAMPAIFRFRTAAPSASVHQ SGVRLPYQFMALIASDNFCCW VHGGYITLAVNGNDAIGSVFNN QIVKCPRTQCLGEVINTLTDLP HFTGQLW

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21554	51922	B	21682	160	312	
21555	51923	A	21683	80	452	
21556	51924	A	21684	158	1980	REDTAHLPAVGFLPQNPFRAIR ASGEMLLPLLLLPMCWAVEV KRPRCVSLTNHHFYRESKPTV CLDGSATIPFDQQRLLTYCDCK VDGS*RSQATAA/C/PNGQAFH/C HQTLLGL*SPL**SPSKPGSNDGV CDCCDGTDEYNISGVITCENC KEEGPVRRESLQQA/EV TRE GFRLEEDPLFEGLGKKAREEK QKKLVELQAGK/KSLEDQ/VEM LRTVKEEA EKPEREAK EQHQK LWE/EQLAGFQGNREQDARA ADAFKELDDMDGT VSVTELQ THPELDTDGDGALSEAEQAALL SGDTQT DATSFYDRVWAAIRD KYRSEALPTDLPAPSAPDLTEP KEEQPPVPSSPTEEEEEEEEEE EEAEEEEEEEDSEVQGEQPKEA PPPLSPQPASPA/EEDKMPPYD EQTQA/FIDAAQEARNKFEEAE RSLKDMEEISIRNLEQEI SFDGFP NGDV/FAYLYSQ/CARDLT TNE YV/YTRLCPFQVLFAGFNPSNG VFPTSLGHLGASW/VLGPDHGQ VSVAMKF*ARHGACWQGNPL QHP*RFWFGKET/MVTKHPQ*P SRCEYLHGS**TPAA/CPEPPAL KQPPQKD/DHDEVLSWMGARE
21557	51925	A	21685	59	359	LLRIGNDWCIPKGITPTTHIKLP IGEIRQPNATLDLSQSDVNEY CLLLAKELGLNVPDAEIIKAGN/ GARVSGRTF*QALEC*ANGFTS LATGGYVSDI
21558	51926	A	21686	1	213	MSIAVTITDPTINTGVSTSSSSS TGSNAADLQSSFLTLLVAQLKN QDPTNPMENNELTSQLAQISTV SGIEKLNTLLGSSGQIDNSQSL QASNLIGHVMIPGTTVLAGTG SEEGAVTTTTFPFGVELQQAADK VTATITDKNGAVVRTIDIGELT AGVHSFTWDGTLTDGSTAPNG SYNVAISASNGGTQLVAQLQF ALVQGVIRGNSDITTFGVNMKL AHLGRQALMGVMAVALVAGM SVKSFADGELLNKKERGTLLV GLEGTYPFSPFQDDGKLTGFE VEFAQQ*FAHGQQRRTKQFS DFAGGAAEKPDPQSNKGQRA DVAIGTNQHGRD

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21559	51927	A	21687	1	2339	MSGGQTEKQAQLIRDFQPDMI MVTSPYCLNIEELERQLGGDA SGCSLRVGVFGAEPWTQAMRK EIERRLGITALDIYGLSEVMGPG VAMECLETTDGPITWEDHFYPE IVNPHDGTPLADGEHGELLFTT LTKEALPVIRYRTRDLTRLPGT ARTMRRMDRISGRSDMLVLR RRHLCRPSACQLCRPPSLPATD RVLELFAQSGAQWLVLGDVL NHGPRNALPEGYAPAKVAERL NEVAHKVIAVRGNCDEVDQM LLHFIPITAPWQQVLLEKQRLFL THGHLFGPENPALNQNDLV YGHTHLPVAEQRGEIFHFNPGS VSIKGGNPASYGMLDNDVLS VIALNDQSIIAQVAINPAPEKEG FLIMEQRRRLASTEWWDIVNEEN EVIAQASREQMRAQCLRHAT YIVVHDGMGKILVQRRRTETKDF LPGICATSKVRKLLCKSAALLP VSELLVLLTPVFGSAVIGKL GAFAIHIDGITVKRRLVRNTVL QFCGRSRQPLEYVSAGDTGPVL RALKRMAMMRHYMSQT VKG VTDTRAIDEVALSVAQVEEMY RYLAIANVEDRFVIPTSHREMA GDFAERNNGCGFTFGDGCHGS DSKFNLFNSSRIDAINITEILKVI GLLMEYPDELLWECKEDALALI RRDAPMLTDFTHNLLNAPLLD KQAEWCEVFDRGRTTSLLLFEH
21560	51928	A	21688	391	631	
21561	51929	A	21689	2779	3348	LMQLHNLPLVAGLRQFCQQLV IQRLYFFTTATAHQCTRHMCHR HRSLLTAHRQMALCFQYVDDL HHAFADVLIINACYPLLMGEQ GVFIYNGTQQLLHWVIIDSRQD HGFGGL*KSRIVCERRRL*SQH GQVFRHHVPDHRIDIAFNAL *TLVIREISSVPASVGVGIDFPGG AATWAGPVVIKPGQS

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21562	51930	A	21690	1	1239	MPNVDVVGEMVNTMSASRSY QANVEVLNTEKAMSIAVTTTDP TNTGVSTTTSSSLTGEQRRRFTK QFSDFAAGGAAEKPRPDQSNKG QRADVAIGTNQHDAARILRKG TMTLLNPFYGFEGGMYVPQIL MPALRQLEEFVSAQKDPFQ AQFNDLLKNYAGRPTALTCKQ NITAGTNTTLYLKREDLLHGGA HKTNQVLGQALLAKRMGKTEII AETGAGQHGVASALASALLGL KCRIYMGAKDVERQSPNVFRM RLMGAIEVIPVHSGSATLKDAC NEALRDWSGSEYETAHYMLGTA AGPHYPYPTIVREFORMIGEETK AQILEREGRLPDAVIACVGGGS NAIGMFADFINETN/VSVGPOH AYLNSSVRAD*VSIIDDEDLQA FKTLTASYKTPAAAKTSLHVP
21563	51931	A	21691	32	1778	WDARVFSHSGWVLYLIRQYCSI SAVSSCGSTTGSAACSATSWATA TSDSVTHLRLFSYRGSDFRMR RFNHFRRLRFGLNNGGFYDTGHF FNNWRANNRFDSSGDRDLSHH RLHMYFFLFALLFNLILRTYN WIADPDFARGQFRRRARYGQR HWRLGWITLVTIATTLTTYAQ VTRRAARTTRHATVTVVISIVL FLLFWCSLRYDWHYCILIRSTP SVLSQYPVGNELRRRLVHLHL LCTYSDDSDRDPYRQESRTRN GVVPVIVNIDVHRFGQTGDQH GAMIIPVIFLLNVAMHERASGHI PNGNRTYYLSRSQPPVFALMVE LFEEDGVA VARYLDHLKMEYA FWMDGAEGLIPNQAYRHVVRM PDGSLHRYWCDCHTSCD*SW LEDVETAKHSGRPPNEVYRDLR AGAASGWYSSRWLRDTGRLA SIRTTQFIPIDLNAFLFKLESAIA NISALKGEKETEALFRQKASAR PMREYETGEQWDKPNGWAPL QWMAIQGFKMYGDDLLGDEIA RSWLKTVNQFYLEQHKLIK EY HIADGVPREGGGGEYPLAQDGF GWTNGVVRRLIGLYGEP

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21564	51932	A	21692	1	2514	MKTLIARHKAGEHIGICVCSA HPLVIEAALAFDRNSTRKVLIEA TSNQVNQFGGYTGMTPADFRE FVFTIADKVGFAERHILGGDHL GPNCWQQENADAAMEKSVEL AVVIDLWSRAVIGWSMSPRMT AQLACDALQMALWRRKRPRN VIVHTDRGGQYCSADYQAQLK RHNLRGSMASAKGCCYDNACVE SFFHSLKVECIHGEHFISREIMR ATVFNIECDYNRWRHRSWINS LLSQKRNTQGRIEDGRQH
21565	51933	A	21693	1	1527	
21566	51934	A	21694	792	1602	HICLSARRYELVCQPK*AFVR*L LR*IAVLRHNLNQHLLRRSHSLR HGRRHTRKGERGTINIVNGTPI HERSRNIDNRRSPSPYIRKRGAH TELRSDDHPLINQHWHFAGM VAVTNGRIVAVIRHHDQAIWL HRLNKPQKVTVNDLQTFGITCD VFCMTSEVGFNLVNGANKRRRM GVKFVEGDHNPALHILQILPAH AIRIVDDICHLTHQHGWHACFI QFLWHLHFFIDAIAHMDLET VISARTRIDTNKAPFFAFCGIE
21567	51935	A	21695	1	1530	LSQQTVENTLQAQHQTHFFMG VIHQQRPTTHRRDVVIGHQWH CAVMSGTHSNVIEKTANIIGV VFTEIKSNNAKPVLAIESNAA ATDGEIVFDGEILKSACEINDSD KKIEVALGHYNAEQFRNIGERS PKIPFTIPLVNCMTGEIANILGS KPGTIFTMLRDTGGIKPHERKR A VAHLTLSEEEIRAGLSAKMS IRAIGYWR*IASPSTFSRE/VQRK GGHRVYKAVDANIRANRMAK RPKPCLLDQNVPLRKLVEKLE MKWSPEQISGWLRRTKPRQKT LRISPETIYKTLYFRSREALHHL NIQHLRRSHSLRHGRRHTRKGE RGTTINIVNGTPIHERSRNIDNRR SLGHWEGDLVSGTKNSHIATLV DRKSRYTIIIVRLRGKDSVSVNQ ALTDKFLSLPSELRLSLTWDRG MELARHLEFTVSTGVKVYFCD PQSPWQRGTNENTNGLIRQYFP KKTC LAQYTQHEDLVAAQLN NRPRKTLKFKTPKEIIEGRVALT
21568	51936	A	21696	2	140	IITNSISRPDPPMSDPHS*SPAS SSAKTETKSLFNAFLV

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21569	51937	A	21697	1817	4083	KGLLTSTFHYIKTPEVPNLCVEG GTRLQIWPACSTSGGGTCWK APPQPPRPPTSSSPS/PAPPSEAF VLSAGAMQLEAGAYSLVIKES KNNVGVVDVKKRHCTAGGNV NQYNHYGKHCVLSCSGPASGA QPLYRMAQPPSPNMAAGIPPA ARISSSITSPLLKPSWLHLAHP VLQAHLTEEGLGRSHHVQRGQ CLVSKSVFTNACWEMQNVRKF TDFIPLHKNTRGPEPLCRRRNQ APNMACMQQHWQRRN
21570	51938	A	21698	247	281	KPGKQHSMLK*SALLPSAHGPT S/CKEARCHPVQILPELLF*MP KKICPPLCYLWTVKAWETTTFH AEV
21571	51939	A	21699	531	716	PRRLRAAPPDLGGFRLLPR/LPE ASGCSP*SQRLFQKAPSPAPCS WRRSRFCVKTCVLPMGQQ
21572	51940	A	21700	202	606	ITCLHAHVTCQILPYLMLPAP LLRPLPTPLTVAGVGQSLPEIQL SVTLPLQPGRNQGSLESRHLVS WAEPP*DPAVSALPLQPGRNQ SLESRHLVSWAEPP*DPAVSAL PLQPGRNQGSLESRHLVSWAEP
21573	51941	A	21701	444	1167	FRLHGHLERGPFYFLSPLAVQS SQSCLRRFTTRYHLPIYVLNRK NSWHVAHIFRRHAKPEEQAPIY SHIHFTSDLDEVLNDPDVKLVV VCTHADSHFEYAKRALEAGKN VLVEKPFTPLAQAKELFALAK SKGLTVTPYQNRNRFDSCLTAK KAIESGKLGEIVEVESHFDYYRP VAETKPGLPDQDGFYGLGALFT NQQGFKSSLSIFADSSSSVAG RSPHNLVKKRGGIVAIISAFAG
21574	51942	A	21702	1	668	

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21575	51943	A	21703	1	1308	MRVYMDGRLIVSTRQRKVLAA GPMLYAATRAPAFTMSGDNLV RSHASIYMTSCHTLTGEQAGYA VFGALLPAITLLHLNSACCIVYV SCLLADAGHRDSLQQAGDKWT TTDSYSSSCTSETLGSACVRYA HSSRNHVRFALSDDLDEVLNDPD VKLVVVCTHADSHFEYAKRAL EAGKNVLVEKPFPTLAQAKEL FALAKSKGLTVTPYQNRFFDSC FLTAKKAIESGKLGIEIVEESHF DYYRPVAETKPLPDGAFYG LGVHTMDQIISLFGRPDHYRL* HPGALRNKSPIWTNPFEAQLFY GDLKAIVKTSHLVKIDYPKFIV HGKKGSIKYGIDQQETSLKAN IMPGEFGAADDSSGVVLEYVN DEGVTVREEMKPEMGDYGRV YDALYQTITHGAPNYVKESEVL TNLEILERGFEQASPSTVTLAK
21576	51944	A	21704	199	706	SHDVCRINADQRDRNRRQR RSLRVYKLGNNQQNNGIGPRIL FHHFTQYALNFRHMRTEHGFC HPCDTVHRHDGHTGTEDFVF/ WR*TRDWFWSG*YQRPQQQH KHLNNQYHRQFAAEGWTQV RISTKKGDSYDCPEENPHCQPV AGRYHYSLVGRVSNATLARLIR
21577	51945	A	21705	354	569	SRAVCVQVGTTRLWAIFGVSE LQRHVLVVFAFWIVKNSRNL FLVCRAEHKRSVVKGLLRQQG AGLLVPLS
21578	51946	A	21706	373	462	
21579	51947	A	21707	1	1293	

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21580	51948	A	21708	1	1371	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIHILTKTNPASISK NEVFRSGMIAIVAVYGIAWMA ETMFAPACYGYIILPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPQSVKAD IATNPFKRPGGAFIRITQTFRVT QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAERETGKAALVMGC VGVTEGAIPFAAADPLRVIPSIM VGSVCGAVTAALVGAQCYAG WGGLIVLPVVEGKLGYYIAAVA VGAVVTILFV*TC*KVWRVKM GLRLMKKKTWIIWLKLI
21581	51949	A	21709	961	1116	
21582	51950	A	21710	228	388	RRGRNRYPALQ*TMFLPADGP ARCLSRQAAILKESVLPK*GRP DVVFSPAYPY
21583	51951	A	21711	1168	1851	LHRTGQRPAAQRTETHHPFFNH FARLQVDTVVINHHQHTVAFQ NRTFRSEI*RNNVDIFQPDVLPD ILLGPVREREDADAFVNLVP VVVPQLRALIFRIPAMEAVTER VNSLFSAGFLFVTARTTEGGIKT VVFQRLFQAFSFHNIGMFRAAV HEWINPHRHAFRVFMHQFQAA VGFSSTIAELIHLAEFFAGIDMQ QREQRQTWIKRLARQMQHADG IFTDRVEH
21584	51952	A	21712	1	2653	
21585	51953	B	21713	632	709	

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21586	51954	A	21714	1	1214	MHDQQVIDAYHPDLRRTRAAS QSIIPVDTKLAAGITRFFQFND RFEAIAVRVPTTNVTAIDL SVTV KKPVKTDVGGAGTVKLNRCQI ARISRQDVITPPGCVFEKALTLL IASGRNDTLARQNNHTKESLVE KPERKILVIKMRVYHGDMLLTTP VISTLKQNPDAKIDMLLYQDT IPI LSENPEINALYGISNKGAGTF DKIKNVLSLIKTLRANNYDLVI NLTDQWMVALLVRCLPARMKI SQLYGRHQHGIWKSFTHLAPI HGTHIVERNLSVLEPLGITDFYT DTTMSYAEDCWKKMRREDA LGVKDHVYVIQPTARQIFKCRD NDHISKVICMIRGSPTEGRWSVF FFYPADFTFVCPTELGD/GC*PL RRTAETGRRRIRSIYRSLHPQS
21587	51955	A	21715	25	1086	
21588	51956	A	21716	1	1113	
21589	51957	A	21717	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGILFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21590	51958	A	21718	1	2076	
21591	51959	A	21719	2742	3109	VWTEGTGNASRARR/WKGNQL LPVSLVKRKTTLPNTQTASPR ALADSLMQLARQVSRLEKRAV SATQLMAKAVKQGQSSLLPVSL VKKKNHHPGALIRKPPLPARWPI LLIQLARQVSRLETGQ

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21592	51960	A	21720	174	1608	TAAKRKIPASIRSIND*KY*VC KRT*CVGQLAAIENADGTVAEY NGYHVVFALAGSPKADDDTSI YMFYQKVGDNISIDSWKNAGR VLMNPLMLVKIKLSLTLACH ALLDCKTLTLTELGRNLPKAR TKHNIKRIDRLGNRHLHKERL AVYRWHASFICSGNTMPVLVD WSDIREQKRLMVLASVALHG RSVTLYEKAFPLEQCSKKAHD QFLADLASILPSNTTPLIVSDAG FKVPWYKSVKELGWYWSRV RGKVQYADLGAENWKIPSNLH DMSSSHSKTLGYKRLTKSNPIS CQILLYKSRSGRKNQRSTRTH CHHPSPKIYSASAKEPWVLATN LPVEIRTPKQLVNIYSKRMQIEE TFRDLKSPAYGLGLRHSRTSSS ERFDIMLLIALMLQLTCWLAGV HAQKQGWDFHQAQNTVRNRN VLSVTRLGMEVLRHSGYTITRE DLLVAATLLAQNLFTHGYALG
21593	51961	A	21721	1	3285	
21594	51962	A	21722	1095	1188	
21595	51963	A	21723	568	1263	
21596	51964	A	21724	2	1688	
21597	51965	A	21725	1456	2046	SKGKVAIVSSHQEVRASPRRSP LGSEERPGPHTSRQAAGQPHPG TCSSVHCQGSWGLQTQNSEVIH DGDVEAISVGEDAAPGPRVHG ADLGQEEEAFFR*VVMGGLPDR DSALAPVPEPMHRGWAVRAAE GAVQNDPVGGSERSWGAGSHS QPFSHRPAPHTRGLAQQAQTEAA GEGAVPEVHRGAVLAGVRAPG WAQP
21598	51966	A	21726	335	595	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARIHGSFADAE*I LWTTGGDNESVS/MR*FFRPLER DLYNRIWHEIGLLLVSL
21599	51967	A	21727	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNGLWYCELS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21600	51968	A	21728	622	1281	

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21601	51969	A	21729	1066	1827	VPQAKGNNVVITSYMTNRGFF EDKKATFAPSLMNIKGNKTSV VKNSILEQGGTLWLQVAKRAG LGGGQSGRTVLRERVRIEAST HIALQHAIVTGDVGMDDIPQE ARQYRHNQAYAYSIQGDGAED DDERIAFASHTIQECRSQGPQG YPFKIYSSRKDRIPISQSLLSEHF TVHEETAPDLETTG*PGCKDHG NLCC/LSSVKLRYSMYRIKAGL WMTHPG*RTYWV
21602	51970	A	21730	1	1326	
21603	51971	A	21731	1	1971	
21604	51972	A	21732	1	1626	
21605	51973	A	21733	1	1810	
21606	51974	A	21734	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
21607	51975	B	21735	1	1938	
21608	51976	A	21736	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21609	51977	A	21737	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRIRACPL YLLTGLISVSKNGLWYCELQSH YTVVLLL FMRKRSRFQSNVQR KLMTNF
21610	51978	A	21738	10	426	
21611	51979	A	21739	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
21612	51980	A	21740	1	1139	MWVGSRTPYINILVYSSPEVS CEKPKYVKSQTSHTGTGFESHKR YIFYRLRVGKNLHVSAMGLGK SQERRKKALKSQPPQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLACLGMG KCSGFWLYF
21613	51981	A	21741	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE

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21614	51982	A	21742	189	1089	HHTAHCQ*CW/L*S/DHGINPLRS WVGTV*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPELPEEFKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDLIES
21615	51983	A	21743	1	1135	
21616	51984	A	21744	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRAIRCPL YLLTGLISVSKNLWYCELQSH YTVVLLLFMRKRSRFQSNVQR KLMTNF
21617	51985	A	21745	80	430	RWLATHYLVTKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCPL LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21618	51986	A	21746	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSAFADAF STDLYHGTLKPASLTMSGVLL GRMLARSARNWS
21619	51987	A	21747	391	527	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSAFADAE
21620	51988	A	21748	671	1030	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSAFADAE* LGDGW*Q*VRVER*FFRPLERD LYNRILACPLINT*PTPVRLKP *TVWSMGPPVVGTPARPIRTSGA CWWCW
21621	51989	A	21749	221	478	AEQDCTLPVL RHFTFFKSRKVS SICIRFE*ILTSCLGVRISTGKLV ARTHGSAFADDQTLFFMTLAVS GELWTPSPWRPNISRTS
21622	51990	A	21750	590	940	RWLATHYLVTKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCPL LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21623	51991	A	21751	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSAFADADT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \=possible nucleotide insertion)
21624	51992	A	21752	342	1459	SFLWRFRLLRGGSERFCLAGIPSA SGV*NIPASASIRSIND*KY*VCKR T*CVGQLAAIENADGTVAEYN GYHVVFALAGSPKDADDTSIY MFYQKVGDNIDSWKNAGRVF KDSDFDANDPILKDQTEWS GSATFTSDGKIRLFYTDYSGKH YGGQSLTTAQVNVSKSDDTLKI NGVEDHKITFDGDKTYQNVQ QFIDEGNYTSGDNHTRDPHYV EDKGKHYLVFEANTGTENGYY GEESLFNKAYYGGGTNFFRKES QKLQSSAKKRDAELANGALGII ELNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYLFIDS RGSKMTIDAKSTLLESTEGSMT PPMTATEPFLRFLKGEIAQPKPH
21625	51993	A	21753	2094	2201	
21626	51994	A	21754	81	1080	HHTAHQ*CWLS/DHGINPLRS WVG*G*V/GVRGKVQYADLGA ENWKIPISNLHDMSSSHSKTLGY KRLTKSNPISQILLYKSRKGR KNQRSTRTHCHHSPKIYSASA KEPWVLA.TNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPA YGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQEHPLWSL ALVRRSPAQSPHVGTSSTG GCSSQAPCMKSNALIVILGT TLDAVIGLVMVPLPGLLDIV HSDSIASHYGVLLALYALMQFL CAPVLGALSDFGRPPVLLASL LGATIDYAIMATTPVLYVPLV
21627	51995	A	21755	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVAIRCP LYLLTGLIFVSKNDLWYCELOS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21628	51996	A	21756	1	593	MGVNDLWQILEPVKQHIPLRNL GGKTIADVLSLWVCEAHVPKK MMGSVMKKHLRDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQ AAYPIPDQVQSVLISMLLIAL MLHLTCGLAGVHAQKQGWOK HFQANTVRNRNVLTSTVRLGME VLRHSGYTITREDSLVAAITLT QNLFTHGYYLGLK*GDLVLSL
21629	51997	A	21757	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE

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21630	51998	A	21758	719	814	AGLFKSRKVSSICIRFE*ILTSL GVRIFNR
21631	51999	A	21759	1	1596	
21632	52000	A	21760	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRIRCP LYLLTGLIFVSKNDLWYCEIQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
21633	52001	A	21761	1343	1480	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSFADAE
21634	52002	A	21762	2	151	
21635	52003	A	21763	258	396	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSFADAE
21636	52004	A	21764	1	3081	
21637	52005	A	21765	449	586	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSFADAE
21638	52006	A	21766	563	2042	
21639	52007	A	21767	1001	1093	
21640	52008	A	21768	1814	1870	
21641	52009	A	21769	2760	3723	HHTAHCQ*CWL*S/DHGINPLRS WVGTV*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRSGKR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPEVIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL QLRHRTSSSERFDIMLLIALML QLTCWLAGVHIAQKQGWDKHF QANTVRNRNVLSTVRLGMEVL RHSGYTITREDLLVAATLLAQN LFTHGLFGPSVDAPPPKRGFKR PKLPELRLQRFFGGVITPPLESY SLPSDPVHLFPPRPPRQLTASP LRARAPYECSSCKDA
21642	52010	A	21770	860	3503	
21643	52011	A	21771	4597	6030	
21644	52012	A	21772	1513	3464	AGLFKSRKVSSICIRFE*ILTSL GVRISTGKLVARTHGSFADAE
21645	52013	A	21773	1	453	

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21646	52014	A	21774	1	1526	MSSSHSKTLGYKRLTKSNPISC QILLYKSRSKGRKNQRSTRTHC HHPSPKIYSASAKEPWVLAITNL PVEIRTPKQLVNIYSKRMQIEET FRDLKSPAYGLGRHSRTSSSE RFDIMLLIALMLQLTCWLAGV HAQKQGWDKHFQANTVRNRN CKMATLKEKLIAPVAEEVEANS PNNKITVVGVGGVGMALCAISI LGKVSWPDELALVGCWFWDK LKGNDGSPQHGEIIFQTPKN CGQDKGLFWGPPNS*RFVSW*L AGSPVQPRRGRIRLKS WVPEK WLMVFQIPLFLKIVKYSP*FAS* LVVSHPVADIPTYVTWETKVGL PKHRVIGSGCNLDSARFYLMA EKLGIHPSISCHGW/IFWGEHG DSSVAWCWNGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLGYTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIEVEFLSLPILNARG LTSVINQKLKDDEVAQLKSSA DTLWDIQDKDLKDL
21647	52015	A	21775	2	355	
21648	52016	A	21776	2	178	
21649	52017	A	21777	1	888	
21650	52018	C	21778	127	255	
21651	52019	A	21779	1	1824	
21652	52020	A	21780	330	476	
21653	52021	A	21781	452	500	

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21654	52022	A	21782	3	1584	DAWAAVSRGDEPGWGSWSR LLQHWGVSCWSDPKRFSSALQ GYIITDWCAPFNKRIWKREQPE ETFPNTEITNGEFGK\RPADME EEQAFKRSRNT\DEMVELRILLA QSKNA\GAVIGKGGKNIKALRT DYNASVSP\DSVPERILCISA DIETIGEILKKIITLEEGLQLPSP TATSQLPLESDAVECLNYQHYK GSDFDCELRLLIHQSLGREGIIG GQRCLKSKELRGGLTQTTIKLF QECCPHSTD\RVVLIIGKPKDRFV ECIKIILD\ISESPIKGR\AQPYDP NFYWGKPMYDYGFTMMFDD RRGRPVGFPMRGRGGFDRMP GRGGRPMQPYRRDYDDMSPRR GPPPPPPGRGGRGGSARNLPL PPPPPPRGGDL MAYDRRGRPGD RYDGMVGFSADETWD\SAIDTW SPSEWQMA\YEPQGGSGYDYSY AGGRGSYGD LGGPITQTQTIPK DLAGSIYKGGQRIKQIRHESGA SIKIDEPL\EGSEDRITITGTQDQI QNAQYLLQNSV\KQYSGKFF
21655	52023	A	21783	211	1635	KNMETEQPEETFPNTEITNGEFG KRPAEDMEEEQAFIRSRNTDEM VELRILLQSKNA\GAVIGKGGK NIKALRTDYNASVSPDSSGPE RNL\ISAD\IETIGEILKKIITLEE GLQLPSPTATSQLPLESDAVECL NYQHYKGSDFCELRLLIHQSL AGGIIGVKGAKIKELRENTQTITI KLFQECCPHSTD\RVVLIIGKPD RVV\ECIKIILD\ISESPIKGR\AQ YDPNFYDETYDYGFTMMFDD RRGRPVGFPMRGRGGFDRMP GRGGRPMPPS\RRDYDDMSPRR GPPPPPPGRGG/RGLGSRARNLP LPPPPPPRGGDL MAYYKRRGP GDPYDGMVGFSADETWDSPID TWSP\SEWQMA\YEPQGG\SGY DYSY/AQGRGSYGD LGGPITTT QVTIPKDL\ALGSIYWKKGQR\IK QIPS*V\GELSIKIDEPL\EGSED RITITGTQDQIQ\NAQYLLQ\N SVKQYADVEGF
21656	52024	A	21784	860	1201	TISEPPALILLPIA\VP\SFSTTCRLP EDIIV\SAFP\LLIFCVPLLLIVP VAMP*LLIFCVPLIMV\VFAPA TSITPPLSIRVASALALVKTDIVP LSLIIVLFAEPYAFMSK

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21657	52025	B	21785	1	3750	
21658	52026	A	21786	1	1350	
21659	52027	A	21787	189	1939	TAMAGRMPCAEVISGSATRPD GPKALFKPIGRPHQAIKPP AAPPKQAVTNGFMGRVPPKT LTPSESSLAPMTLVVIVVKEA LPPAKIFIPVVPYQPIRRAPDAE PLSASKTPSVYLVNFVVSPEDL RKLTVDVLPALRANTRALWQV EVSAPPSFMTQATPATQPLINAE PAVAAPTEQNQVGVPMMPGVQ GADAPVVAQNGPSRDVKLTFA PIAPPGSMVLRGLNPNGSLEFG MRSDEVVTKAMVQLELTPWH GYGCQCPLPVKYLAAIGFSV MIEALNQLAIFNRRLSANQT LRQRTTEAVMRLLSGQKEDAE LDAETASMLVDHGNQQIFNPQ ERRMIERVLNLRNQRVTSSIMTS RHDIEHIDLNAPEEEIRQLLERN QHTRLVVTGDGDAEDLLGVVH VIDLLQQLSGEPLNLRVLIRQP LVFPETLPLPALEQFRNARTH AFVVDEFGSVGEIVTSLSDVTETI AGNLNPEVEEIDARHDIQKNAD RSWTGN/GLLPLGDCRL*QASP TGCINRRGSHYGYPTLYEFKRK FLTPGTVCRCDCQRGDAMRVQ VQWVFYTYILPLANE
21660	52028	A	21788	558	1563	TNNRL*K*GNN**LTNQKKSR RWIHSRILPEAGC/GIASVGRNN CGLWRFTPAKAIWGGKIHPVFQ RQILRVLSQTLFPN/MSLGRNLG YGLKMFVGPRAELKPRFKEALP MVNLEGFEDRFVDQISGGQQQ RVALARALILPKVLLFDEPLS NLDAANLRRSMRDKIRELQKQF DITSLYVTHDQSEAFVSDTVL VMNKGHIMQIGSPQDLYRQPA SRFMASFMGDANLFPATFSDG YVDIYGYHLRPLHFGTQGE MVGVRPEAITLSDRGEESQRCV IRHVAYMGPQYEVTVWHGQE ILLQVNATRLQPDVGEQYYLEI HPYGMFVLADAA
21661	52029	A	21789	201	312	CSWHDREFPDWKAGTHLLARG* QLSLPVWLCPVLLKLS
21662	52030	A	21790	925	2388	
21663	52031	A	21791	1	759	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
21664	52032	A	21792	1	1086	MEKKITGYTTVDISQWHRKEHF EAFQSPAQCTKNQTVQLDITAF LKTVKKNKHKFFYPAFIHILARL MNAHPEFRMAMKGVPGGDSV KNTSRVWSGNERDQKLLTENA LNDLIPSFLLTGQQTALGRRVVS GVIEIADGSRRRKAAALTESDY RVLVGELYDEQMPLSRLGND YRPTSAHPQKRRYASRLQNEFA GNISALADAENISVRDVLNLL EVLGVDSVEKTRVWWSGNERD QELLMEDALDDLPSFLLTGQQ TPAFGRVSGVIEIADGSRRRK AAALTESDYRVLVGELDDEQM AALSRLGNDYRPTSAYERGQR YASRLQNEFAGNISALADAENI SRKIPRCINSAKLP
21665	52033	A	21793	1	935	MLRDLKKNVDLKGFEPPDVRI TKYSNSNGSQSPWMEEQIRDA WGSMLVKNVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVMMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWWSGNERDQELLTEDALDDL PSFLLTGQQTAPAFGRVSGVIEI ADGSSSRSKRRRGCEGGRV/V RQCGCPDQKHIPAFVSVGGKIHL SGRTPVEKRPLPQPRDLGARA FAACRGSRGRPWNLPAALRL HADLGCVRGGGGWPGANPY PAPASSTC
21666	52034	A	21794	181	923	QHAIVTGDVAGMHHPQEARQ YRHNQAYAYSIGDGAEDDDE RIVRFHTRCLTEAFEKLQCGGV VNQLSRRGNNQIHSTYDINRA DTQVRRRAVNNYDIIVMSNSFN ASRSIRCGSVGSLPSSNLPI NSVS IRCRAR/SG/EE*QAPASKWAL LHK*HRPFQDRKAGECLLHEY EDLVPIRDLRLFPGGRYLPRA KHVAPSEPDPEQDEQKLRFCKR HLYGQQRSPVEIRLQHVAIAY PTHHAYD

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21667	52035	A	21795	178	798	IRLEPFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVAVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPDPEQDEQKLRFCRHLYGQQPRSPVEIRLELVAIA YQTHHA
21668	52036	A	21796	499	972	
21669	52037	A	21797	3	1141	SRVKLGQSSSEQVAALKTREPMNIATLEVLVLKGLRVCFVKVNHKPGPASMYPGWVPILYIHAEDPLLFPYLGEKEDVTYAIKPTCWPGLDIHPSCLALPRIETELMGKFD EGKLPDTPHMLMLRLAIETVAHDYDVIVDSAPNLGIGTINVVCAADVLIVPTPAELFDYTSALQFFDMLRPLLNVDLKGFEPPDVRILLTKYSNSNGSQSPWMEEQIRDAWGSMLVKNVKEFAGNISALADAENISRKIITRCINTAKLPKSVV/ALFSPHPGELSA/GDALQKAFTDKEELKQQASNLHEQKKAGVIFEAEVITLLTSVLKTSSASRTSLSSRHQFAPGATVLYKGDKMVLNLDRSRVPTCEKIEIAILKELE
21670	52038	A	21798	1	617	LEPASLSIPNLLHPRGLRAITIAVFGKQNTYIRLEPFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVAVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPIILSC
21671	52039	A	21799	181	953	QHAIVTGDVAGMDIPQEARQYRHNQAYAYSIQGDGAEDDDE RIVRFHTRRLTFKINVLEQITKHIEKLQCGGVVKQLSRRGNNQHISSTYDINRADTQVRRVAVNNYDIIVMSNSFNASRSIRCGSVGSLPSSNLPINSVSIRCRAR/SG/EE* CQAPASKWALLHK*HRPFPQDRKAGECLLHEYEDLVPIRDTLRLFPGGRYLPRAKHVAPSEPDPEQDEQKLRFCRHLYGQQPRSPVEIRLQHVAIAYQTHHAYD
21672	52040	A	21800	1	798	
21673	52041	A	21801	1	1782	

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21674	52042	A	21802	666	1131	KGRGTYGNERDQELLTEDALD DLIPSFLLTGQQTAFGRRVSGV IEIADGSRRRKAAALTESDYRV LVGELDDQMAALSR LGNDYR PTSAYERGQRYASRLQNEFAG NISALADAENISRKIIITRCINTRQ LPKSVVGVFFSHPGELSARSGDA
21675	52043	A	21803	1	3297	
21676	52044	A	21804	1	898	
21677	52045	A	21805	1	1977	
21678	52046	A	21806	1	1929	
21679	52047	A	21807	181	755	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYSIQGDGA/GMTM SALLDFIHGA***YIRCGSVGRL PSSNLPINSVSIRCRAR/SG/EE*C QAPASKWALLHK*HRPFQDR KAGECLLHEYEDLVPIRDTLFL FPGGRYLPRAKHVAPSEPDPEQ DEQKLRFCRHLVYGGQPRSPVE IRLQHVAVAYQTHHAYD
21680	52048	A	21808	181	456	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYSIQGDGAEDDDE RIVRFHTRCLA*SRRVNNYDII VMSNSFNGQSEHQVWIGGQFT FIKFAH
21681	52049	A	21809	1	780	
21682	52050	A	21810	1	1050	
21683	52051	A	21811	5	735	PPAAP/MGNLLMARVGVKARG KAHYLPLLRGESVRKTSRVGSG NERDQELLTEDALDDLIPSFLLT GQQTAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDD EQMAALSR LGNDYRPTSAYER GQRYASRLQNEFAGNISALADA ENISRQIITRCINTAKLPKSVVAL FSHPGELSARSGDALQKAFTEK RTLKQQALTSEQKKRGI/YEAE EVSSSLSPQGRLLSNRSASKDMY

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21684	52052	A	21812	1	887	MNMNIKIVKQATVLTFTTALL AGGATQAFKENNQKAYKETK AVGSGNERDQELLTEEA WNDL ILSFLTGGQTPAFGRRVSGVIEI PDGSRRRKAAALPKSDYRVLV GELDDEQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISRKIITRCINTAKLP KSVVALFSHPGELSARSGDALQ KAFTDKKELLKQASNLHEQK KAGVIFEAEEVITLLTSVLKTSS ASRTSLSSRHQFAPGATVLYKG DKMVLNLDERSVPTEC/IEKIEA ILKELEKPAP
21685	52053	A	21813	345	921	RWRQLNLSFCSSCSGSGSEGAT CFARGSA YELGQRYASRLQNA FAGKISALADAEIFSRKIITRCIN TAKLLKSVVALFSHPVELSARS GDALQKAFTDKKELLKQASNL LHEQKKAGVIFEAEEVITLFTSV LKTSSASRTSLSSRHQFAPGAT VLYKGDKMVLNLDERSVPTEC IEKIEAILKELEKPAP
21686	52054	A	21814	1	1989	
21687	52055	A	21815	6	311	
21688	52056	A	21816	3	848	PGGDSVKNTSRVWVGNERDQK LLTENALNDLIPSFLLTGQQT LGRRVSGVIEIADGSRRRKAA LTESDYRVLVGELYDEQMPPLS RLGNDYRPTSAHPQKRRYASRL QNEFAGNISALADAENISRV VNLLEVLGVDSVEKTRFVWS GNERDQELMEDALDDLIPSF LTGQQTAFGRRVSGVIEIADG SRRRKAAALTESDYRVLVGEL DDEQMAALSRLGNDYRPTSA YERGQRYASRLQNEFAGNISALA DAENISRKIIPRCINSAKL
21689	52057	A	21817	1	969	
21690	52058	A	21818	1	1614	

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21691	52059	A	21819	1	832	MDDIPQEARQYRHNQAYAYSI QGGDAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLARD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPFFLL TGQQTPAFGRRVSGVIEIADGS RRRKAAALTESDYRVLVGELD DEQMAALSR LGNDYRPTSA YE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAQLAKSG VALFSHPGELSAPSGDAL*KAF TD*EEFL*PQGSNLYEQKKAG\ VIFGS*KKFSLFLTSVY
21692	52060	A	21820	678	1338	TLRQTKPDNSAEIADGSRRRKA AALTESDYRVLVGELDDKQM AALSR LGNDYRPTSA YER GQR YASRLQNEFAGNISALADAENI SRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFDTKEE LLKQASNLHEQKKAGVIFEE EVITLLTSVLKTSASRTSLSSR HQFAPGATVLYKGDKMVLNLD RSRVPTIECIEKIEAILKEKPPAP
21693	52061	A	21821	1	1809	
21694	52062	A	21822	2	1010	
21695	52063	A	21823	284	2177	
21696	52064	A	21824	1	1296	
21697	52065	B	21825	1	1044	
21698	52066	A	21826	637	1073	IRLEPFKINVLEQITKHIEKLQCG GVVQKLSRRGNQHSISTYDIN RADTQVRRVNNYDIIVMSNSF NARSRSIRCGSVGSLPSSNLPS VSIRCRAR/SG/EE*QAPASKW ALLHK*HRFPQDRKAGECLLH EYEDLYPSVIH
21699	52067	A	21827	1	2403	

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21700	52068	A	21828	1471	3186	LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRAEDVFTPI GVAAIKGTGTVVHIVSSSLGG DHGSPSRIGGLLVCDYGPLVSS SGISGPTRIVGLIISLGPYHLCF RSDYRTGITDPLYIGDATIRVSL RVYSLPSRSRIEHV VANCMIPI KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADD TSIYMFYQKVGDNISDSWKNA GRVFKDSKFDANDPILKQDTQ EWSGSATFTSDGKIRLFYTDYS GVMARGNAITLPVCGRDVKYT LEVLRGDSVEKTSRVWSGNER DQELLTEDALDPLIFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGELSARSGDALQKAFDTKEE LLMQQASNLHEQKKAGVIFEA EEVITLLTSVAKTSSASRTSLSS RHQFAPGATV/LYKGDKMVLN LDMSR/VQLECLDRLHACRSTL
21701	52069	A	21829	158	926	AGPVIQNYVNTQPV/EETSYSTP AAPMVDSLIARVGVMAPGNAI TLPVCGRDVKFTLEVLRGDSVK KTSRVWSGNERDQELLTEDAL DDLIPSFLLTGQQTAFGRRVSG VIEIADGSRRRKAAALTESDYR VLVGELEDDEQMAALSRLGNDY RPTSA YERGQRYASRLQNEFAG NISALADAENISRKIITRCINTAK LPKSVVALFSHPGELSARSGDA LQKAFDTKEELLKQGGSSRV GDNSIDSWKTRGRVL
21702	52070	B	21830	1	3774	
21703	52071	B	21831	1	1495	
21704	52072	A	21832	556	1622	
21705	52073	A	21833	1	2616	

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21706	52074	A	21834	1412	3310	SVTSLCKVTSVCLTSAASCRS VLMRSTAELQCASHTLRKRKA ARRLLISLMMTARKARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGRRLRAEDVFP PVIGVAAHKGNDPQGTASMYH GWVPDLHIHAEDTLPPFYLGEK DDVTYAIKPTCWPGLDIIPSCLA LHRIETELMGKFDEAQP NLGIG TINVVCAADVLIVPTPAELFDY TSALQFFDMLRDLKNVDLKG FEPDVRILLTKYSNSNGSQSPW MEEQIRDAWGSMLKNVRET DEVGKGQIRMRTVFEQAIDQRS STDTSLSIPAAPMVDSL IARVG VMARGNAITLPVCGRDVKFTL EVLRGDSVEKTSRVWSGNERD QELLTEDALDDLIPSFLLTGQQT PAFGRRVSGVIEIADGSRRRKA AALPEISNYGVLVAELDDEQMP AYPRLGNDYRPTSA YERQRY ATRLQNEFAGNISALADAENIS VITRCINTAKLPKSVVALF SHPG ELSARSGDALQKAPT DKEELLK QQASNLHEQKKAGVIFEAEVI TLLTSVLKTSASRTSLSSRHQF APGATVLYKGDKMVLNLD RSR VPTECIEKIEAILKELEKPAP
21707	52075	A	21835	783	2371	
21708	52076	A	21836	3236	4718	
21709	52077	A	21837	1	2481	

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21710	52078	A	21838	2450	3963	LLTAPITGGIGTINVCADDVMI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEFDPVRIILLTKYS NSNGSQSPWMEEQIRDAWGSM VLKNVVRETDEVGKAAPMVDS LIARVGVVMARGNAITLPVCGRD VKFTLEVLRGDSVEKTSRVWS GNERDQELLTEDALDDLIPSFLL TGQQTPAFGQRVVSQVKEIADGI RRRKAALTESDYRVLVGELD DEQMAALSRLGNDYRPTSA YE RGQRYASRLQNEFAGNISALAD AENISRKIITRCINTAKLPKSVV ALFHPGELSARSGDALQKAF DKIEDLLKQASNLHGAEKSW GCYFEAEVITLLTSVLKTSSA SRTLSRRHQFAPGATVLYKGD KMLNLDRSRVPTERYGVFL NVLLPATKYQLHDPFLRNMEL NYSASEDLVLKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLPPFYLGKDDVTYAIKPT CWPGLDIIPSCALHRIETENYNG
21711	52079	A	21839	1573	2858	EPVFEQAIDQRSSTDTLSLTPAA PMVDSLIARVGVVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLIP SFLLTGQQTAFGRVSGVIEI ADGSRRRKAALTESDYRVLV GELDDQMAALSRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISQ*ICWKYFCAG*C GKYFRKIITRCINTAKLPKSVV ALFHPGELSARSGDALQKAF DKEELLKQASNLHEQKKAGV ISPPEVITLLTSEIKTSSASRTSL SSRHQFAPGATVLYKGDKMFIT VKIAKRSQAPCMKSNALIVIL GTVTLDVVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY PLVNSPSC
21712	52080	B	21840	63	368	
21713	52081	A	21841	189	204	SLPSGIKQSSSKASSRIQVAPT M*SLPRQPLAWPSGHEACPOG
21714	52082	A	21842	153	370	LIAGAFRKASGGNNIFRRPKTL* LRRQPR*PQKSTPRRNKLGHYA IIFPLTTESAVKKIETNTLVFT VLV

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21715	52083	A	21843	842	1770	CTPEKCLPAVHRRNWLNRNAEPP VWKRHLSPICRKRQGRATKPK RRPWYTTPTRRVRDVALRPYS RH/GRQPHAKKIRMSLTFRRP KTLRLRRQPRYPKSTPRRNKL GHYAIKFPLTTESAVKKIEENN TLVFTVDVKANKHQIRQAVKK LYSDVDAKHTEERRHDEQNNIL TREAKNRNDNTRNRARTE TNT ETQKNSGYQALISFHSYYSDTS DNKAHLVSYQSQGCTYDRLG WNLLIRMTCSRSLQHTYDIQSTQ IASCFHPVSVRVNRLYCANYG GISA VFMPLRKELLILTRSSNSK VSQRLI
21716	52084	A	21844	353	605	EMAPKAKEAPAHPKAEAKAKA LKAKKAVLKGVRSHT/RKKKIR MSLTFRRPKTLRLRRQPRYPK STPRRNKLGHYAIKFPLTT
21717	52085	A	21845	301	946	PGSYLKPLSWTVALSRLPGFMS RWPCQRLTWQRRSVTQASGAS GASLCASRLPRDKTAPKAEAP APPKAEAKAKALKPKKAVVER CPHTHAKKRIRMSPTFRRPKTL RLRRQPRYPKSTPRRNKLGHY AIHK/FPLTTEISAGKKNNKNT LVHCGC*RPTRHQIRQAVKKL YDSDVAKVTTLICPDKEKKAY VRLAPDYDALDVANKIGII
21718	52086	B	21846	12	115	
21719	52087	A	21847	1397	1489	
21720	52088	A	21848	519	747	SGSVISPIAA*YRIFAVL*SVQ* **AGPGDLSDGDEL*SVAIQPN VFIAVSSITCNWLPFGKCGSTY WMCQSM
21721	52089	A	21849	185	456	QHQPLEVASQWKVCSVSVKLL SQSSDVTRVPLEGLDRLSERSG SLSVL*SGILWALDAASQLVSL LP*LTRYHDPVSVSL/SSTYV*SP
21722	52090	A	21850	789	1086	

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21723	52091	A	21851	1	766	SGRKEANYVYGS LTQAGTVSLG LDAEGQEVVFPFSAVLP MVAP NDLVFDGWDISSLNLAEMRR AKVLDWGLQEQLWPHMEALR P/LGLAVYIPEFIAANQSARA/D NLI PGSRAQQLEQIRRDIDFRS SAGLDKVI VLTANTERFCEVI PGLNDTAENLLRTIELGLEVP\A STLFAVASILGGLCLSFNGSPQ NTLVPGALELA WQHRILVGGD DFKSGQTKVKS VLVDFLIGSGL KTMISVSYNHLGNNDGEN
21724	52092	A	21852	2	2122	WKSWMVFTAMKLVKAHRLK LRLKGYLPVTCLEGTNRQIAA TIRHNRARGRHQITAMSEIVRE LSQLGWDDNKIGKELGMSDSE VLR LKQINGLQELFADRQYSRA WTLKLAQAFSCCQRRFL LGK TETNQFMWEGIGAKHRQRNRR YAVLLRQPLAKLNIIQARYPNQ HRQHAGECNP HCQAGGDIVDR CPARCF TKGDSKDGSP PQATWP FHNSATMTAKRLSEASQCGSK KSILRERIIRPSITRYPFQSTMN HPLPEQTLGCIATDYGSSPSFDR SPGPAHYYYWTDHSTANIRYQV AAEENGEYTYVERVKIPLDHGT LLIMERATQADWQLEQIRRDID DFRSSAGLDKVI VLTANTERF CEVIPGLNDTAENLLRTI/D/RSV WEVSPSTLFAVASILEGCAFLN GSPQNTLVPGALELA WQHRVVF VGGDDFKSGQTKVKS VLVDFLI GFRLQRP/SSIVSYNHLG\NNDG ENLSAPLQFRSKEV\SRSNVVD DMVA\SNPVL YTPGEEDHCV VIKYVPYVGDS*RAL\DEY TSEL MLGGTNTLV\AHNTCEDSL\A APIML\DLGAA*PSCCQRVTF LA LDIGTPSRPFHPVLVPAQAF FF KGA\TLSPPGK P/VLVNAFASAS AAAIENILRACVGLPPQN HMLL EHKMERPGPSLKR VWTWPWLP YPMLNKKGPGSRCQPM AAPVD
21725	52093	A	21853	1	1908	
21726	52094	B	21854	1	1833	

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21727	52095	A	21855	1	749	MFQLMKASSGGEEAACMPAGL MENYKHTTVLLDEAVNGLNIR PDGIYIDGTFRGGLGEEGRLLA IDRDPQAIAV/AKTIDDPRFSIH GPFSALGEYVAERDLGKIDGIL LDLGVSSPQLDDAERGFSFMRD GPLDMRMDPTRGQSAEAWLQT AEEADIAWVLKTYGEERFAKRI ARAIVERNREQPNDELEEFQA LKSSLNVLAPGGGVSIISFHSLE DRIVK/RFMREHQFCVVVRSGV GLKT*SVR
21728	52096	A	21856	532	1418	CFASGFIGELRKNIVGFIEQDHT RGLVFRLTPGRTRLAESLNLVIC LPMNFQPYDSADWITGVVPF DMATSGRAGGRHGPAAIRQVS TNLAWEHNRFPWNFDMRERLN VVDGCDLVYAFGDAREMSEKL QAHAEKLLAAGKRMLSFGGDH FVTLPLLRHAHAKHFGKMAVH FDAHTDTYANGCEFDHGTMFY TAPKEGLIDPNHVSQIGIRTEFD KDNFTVLVDACQVNDRSVDDV IAQVKQIVGDMP/VYLTLYNCG GPS*QFHSRLPAQSPLDRCRAR YLAPQCVPDFRTLQR
21729	52097	B	21857	64	1842	
21730	52098	A	21858	1	503	MRWLVSPIEDTGHKALLFACL ALHRACVSGHCLSPKCVGVGD RSHEMVAPGLFLDWLDDGTGV WDGTSTNVEGAQEHAVLILLII TDGVISDMETGMPWCRLPSCP CPSSSGRGQCGLRCHGVPGWG RRMLRSHTGEEAARDIVSFPF ESSATMSEEVYDPRSLYERLQE QRTGSSRTARQEA VVGSKVTV SQPGHRQETT VLEHLVQY/FILL IITDGVISDMEE/TRHAVVQASK LPMSIII/VGVGNADFAAMEFLD GDA/GMLRSHTGEEAARDI/VQ FVPFREFRNNVRGGL*PSISI
21731	52099	A	21859	2223	2363	

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21732	52100	A	21860	3	693	GDDGKWMVLVHRTEVIKYTLDP VWKPFYVPLVSLCDGDMKPIQ VMCYDYDNDGGHDFIGEFQTS MSQMCEARDSVPLEFECINPK KQRKKKNYKNSGIIILRSCKINR DYSFLDYILGQCQLHVSPLGID FTASNGDPLDPSSLHYINPMG TNEYLSAIWAVGQIIQDYDSDK MFPALGFGAQLPPDWKVSHEF AINFNPNTNPFCSGVDGIAQAYS TCLPHIRFYGPT
21733	52101	A	21861	1	2231	MYSQEGNQFCNRTDCQELLPP PAPMAHIPSGGAPAAAGAPMG PQYCVCKVELSVSGQNLDRD VTSKSDPFCVLFTENNGRWIEY DRTETAINNLNPAFSKKFVLDY HFEEVQKLKFAFDQDKSSMR LDEHDFLGQFCSLGTIVSSKKI TRPLLLLNDKPAGKGLITIAAQE LSDNRVITLSLACRRLDKKDLF GKSDPFLFELYKPGDDGKWMVLV HRTEVVIKYTLDPVWKPFYVPL VSLCDGDMKPIQVMCYDYDN DGGHDFIGEFQTSVFKMCEAR DSVPLEFECINPKKQRKKKNYK NSGIIILRSCKVNQRGQARARG QVSGHTEGTDRALEDAPRPVF KSRLCHILALWPSELHLTRPQSP HLWNGDINEAEHVQGYSSLTFL CGGQGRHELTFQGLS W WENCH CELLPPTVGMQGAEDIGWGHF VLSGISVTVTPMINRDYSFLDYI LGGCQLMFTVGIDFTASNGNPL DPSSLHYINPMGTNEYLSAIWA VGQIIQDYDRPRSFLKPDWPAG TEAVTGQHVMSVYETHVEWG RQIGLPDVAQNTRHPVKFEFQ VSHEFAINFNPNTNPFCSGVDGIA QAYSACLPHIRFYGPTNFSPIVN HVARFAAQATQQRATATQYFILL IITDGVISDMEETRHAVVQASK LPMSSIIIVGVGNADFAAMEFLD GDSPHAAALPTRGRRQPRDIVQF
21734	52102	A	21862	694	825	QPGLSINIEAGAVPRPFARRYW GNLG*FLFLGVLCRFFSPGSPH
21735	52103	A	21863	1032	1127	FYAKAEAGDRTVA*PHKPKMF LSIHHRVAKI
21736	52104	B	21864	1	564	

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21737	52105	A	21865	43	617	PIIQKVRSHTPKRAPCTACTYTVS GSFSLPSPGFFSPPHGTGSLSVS QEYLAL EEVSPHISARDCTCSG LLIELPSTGIFVYGAVTL YRAPF QTLPVTHALIQALGCSPFARRY WGNLG*FLFLGVLRCS SPGSP H*PMDSVNDSVSKHT/EVSPFG NPGYNGSYHLTDAYRRLARPS SPLTPGHPPLYG
21738	52106	A	21866	2969	3593	
21739	52107	A	21867	1219	1503	HFTDGGNNRHQHCGRVRQAG KQVVCVVEHQNQYNHRCVW* ESFQVRTHGTGEPVKNKTRTSQA VSHHNQSCQVDQCVCAVIAG NVFPRHNVPQGQH
21740	52108	A	21868	193	378	
21741	52109	B	21869	1	1473	
21742	52110	A	21870	3536	3926	PKMVRWLARKCWNTVSTVRC FWMAMPTPVFAPCAAIKTASA R*MSWASSR*PNRGCVKSATLR QFS*VAAMK*PPVAQ*WWLGR NASTAGGDSGAGRSLDDGEPTP CGMGLEQKRHGNPAGCVAPSR WS
21743	52111	A	21871	140	901	MAMSKVKSITRESWILSTFPEW GSLWNEEIEQEQVAPGFTFMW WLGCTGIWLKSEGGTNVCVNL WCGTGKQSHGNPLMKQGQQM PPMAGVKKLQPNLRTTPFVLDP FAIRQIDAVLATHDHDHDIVN VAAAVMQNCADDVPFPGPKTC VDSWIGWGVPKERCIVVKPGD VVQVTALEIHAPDAFDRTPIT WLADQKRRRTVKG/MDDAPL* QVSYRPSTPPRCYWSLSSSV YYSKRPFAGHYARLCIPFMD
21744	52112	A	21872	287	392	
21745	52113	A	21873	1	492	
21746	52114	A	21874	569	1061	SGTVLDM/SEYSRVQIRKQPYLS KGYIPVRQKTKAAWLLKAVTFI DLTTLSGDDTSSNIQRLCYKAK YPiREDLLKALNMHDKVAAGF PAGQTHLKTRLEEIRLAVEDGA TEIDVVINRSLVLTGQWEG/LYS PVVYSALPCNI*HSRLFLPSGNA LLLWLWCLHS

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21747	52115	A	21875	2	1072	ARSNIRMVTAFRSLPAGSSGAA RAVMSAHNRGTGLDLSWISKIQ VNHPAVLARRAEQIQRRTVVK KDWQAAWLLKAVTFIDLTTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGITVTAACVVIYP ARVICDAVKGTSRPAG/CVNIPV GISRAAGF/PAG/QTHLKTRLEE IRLA VEDGSLQKIDV/VINRSLG A*QAQWEALYDEIRQFRKAC GEAHLKTLATGELGTLTNVY KASMIAMMAGSDFIKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFKPAGGIRSAKDSLAW LSLVKEELGDEWLKPIELFRIGA STLLSDIERQIYHSCGLGRYGS LFMDLSQCL
21748	52116	A	21876	3	221	
21749	52117	B	21877	49	342	
21750	52118	A	21878	1	828	
21751	52119	A	21879	1362	2405	RPPWRHWDGNSSVLVHFQLHF LLRPLQTLSLGLEEELLQRGIRA RLREHGISLAAYGTIVSAELKG GSRPCA VWWPSEPGAGRCPGN SFSCGNSQCVTKVNPEDDQED CSDGSDAEHCEGLQPAWRMA GRIVGMEASPGFEPWQASLRE NKEHFCGAIIIN/DQPLRS*NHR FQDPTKWVAYVVRPTSAAARRP APCGPSKKA/WISGWGYLK/EG LP*ASPRPAMVKPEVLQKA/DW ELLDQALCASLYGHSL/TDRMV CAGYLDGKVDSCSVLFLFRGTI SFFSEDRNLIRYVLLYSIFVFN CISGKPPQGPVLRALCQHPPQI DAGPQYRASCWVTVPKLQGIF
21752	52120	A	21880	600	904	SVSLLDEETALPFSWDELRLSA LLDT*AAFQEIELAFQDPQCVG LLTAP/YADAAFGSTDIAMFLL VPILSARKPASPRSS*TFSHLATE PLPASIK*AAA
21753	52121	A	21881	393	572	
21754	52122	A	21882	165	432	PGMAVSYEKISKYPVEFLPAQA NIAGHNDAPEREPEFQW*LWLL LPNF*LQEKCSPTLCHFLSRRTQ SEFPSSSTAAGNLSVSLLYPCKS
21755	52123	B	21883	1	1011	

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21756	52124	A	21884	783	1234	YYRRCGAASPHGRDPVQIG*TS SQPR*SAVRN/PASVIPVARHSA RAPAILRP*VVVAERSERSIPGL RATPAEIRTTSAPSSAGVASSPE KPLIFTAIDSHGSHWSDIIHVC AKKLQNYVPKLNASLLLTPSIY VTRITRSGPIPPARQ
21757	52125	A	21885	249	398	GYFDIFS YDTAIPGQSAEQDAR ED*AF*MPDRAYSQPCSSLVFP KGCKK
21758	52126	A	21886	309	845	CGAREERGRGCHHVHSQLRGP GPAPGQVQQQLVPAPVVPPLP GLRGLSWQARRTRARHRQGV QDHQPDPTVHAQLRGVQLGEA PLQLHHGD*DHRA*GYFDIFS YDTAIPGQSAEQDARE*AF*M PDRAYSQPCSSLVFPKGCPVPG RGCAAGVQAAGAAHPPLDHPA LQPLQGR
21759	52127	A	21887	1236	2100	DLLCGRCGCGRRPRHLQPQTEL EAEVPAERPGRGPAAVARSDP RAQAEDVPYGNPLSGKPAKQQ VHEGHHGPAGHRRPAGGAAVP AGGPHRCLPAQPARPCGGAAEP RGGPAGAH*ARGSRAAGEGQP WWPSRLGAGPPAAPVHAAPG SHLLPGHHLTPQPSALAAQ*PL AEEPREQ/PAGGPGQGSPTLRG VEVVPLPHAAGGAGAVPVGGA ACPTAPHAASAPVLLSQLG TQHPPRRDPHSCCAGIQDSGW AGPPALWSLLHVAKPAQARRP CALLHPGV
21760	52128	A	21888	1931	2185	AKAFSFFRYISRVSRNRTCLRS SMRRSFDSSNADAAFGSTDI MFLLVPLSARKPASPRSS*TF HLATEPLPASIK*AAA
21761	52129	A	21889	1254	1760	
21762	52130	A	21890	1	2001	SIRRPKRARPIRIKKIPEQQG/PQ PAVLVPQTVATRDRELQMP/P VGPELTKRDPVVRAMTIPATAA VYKPYWGATPLPIA/KPSPAG*Q *SRFSKGYFGFD
21763	52131	A	21891	195	545	HSPGSFYSRDDAQSPAPAIRAA V*AEVQ*TPLCHDRITHFPEDW RGWQRS*F*PAACRVAGSLPVP VSPQIHFPYCRSSAQYLPCGAG LPLPGFDRLCPRSLFQGLAVTG GSCGPS

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21764	52132	A	21892	825	1299	YSCRTEHPRLATAEYRHHQRA ADAGR*RHAGVAFYPIKERYR QPEPAFSYQ/PRRWSASNRNRP R*RMRRFPANSSTPFPAPPLRR KRVASLIGGRMLRLTGAGIAEE RMIAQLPECILHELTERPHFPF LGIDLITCGERLLAIPRTTHVE
21765	52133	A	21893	1460	1810	RATHVLTWVRGTPKRAEMILG SSRSMSAAAVTVLISPATAQRW ITRAP*PPIRSPSVSLTATRPSS ITKARALSPMAAPALRSTVTP PRITVEKPLLMKIPRVKSRAL SAL
21766	52134	A	21894	231	704	QSQKPDTRGRLFAVAKPPCVQR HKVVRWRLVLVMTSAHYLPLRR *PAHPASGGCCPNRAKYTQRP E*ISYRPD*EAVR*SRAPAKVTQ SNPASRVALLRRPAPRAVHQATII PVDESTLLPAPLAVSARQKVRQ AIPLRDSVRRPTLDVHRHATG L
21767	52135	A	21895	1291	1925	RQLLRWSNR*IAR*SLTQPARRF PAYHYAHPAAAPGDPGLGAD LQLCARHYHRQRHCVPRHAGY PRSDGLHPQPRGRWRIRCSDECL RVPF
21768	52136	A	21896	1	445	MFISGLDDFFIDVVYVWRRIKR KLSVYRRYPRMSYRELYKPE KPL/DDYGSQVE*NGRHRQYGR AGGDHARLRKLSYLCWHLPQR PRYSA*C*RSVRSLECA*GSLR ASWP/HPAKPTV*TTWCWTPSPN LSVAPISLLLVLCFMTPKM
21769	52137	A	21897	79	377	SRKSGISIGAVKRPTH*GS*KAR SIC*NAAYVSKKAESLSSFPKES ESTQRVKAVLSS**ASQCGDGT AQYVLLSFQGSQQA*QVCGR* KAY**DLSRE
21770	52138	A	21898	1282	1535	GSTYELIASATSPSAKPSNRSPSP MSRPQSNPKPNLHSC*P*GNL RSTPESGK*ATPPPPAYTLVLF KLANPQLPEESPWAF
21771	52139	A	21899	3775	4031	CRRTAASRTPRKRTQTATPHAT NKPKQKQTSITDRGNRREPEKTE PS*HLRPNPQEPGRRGQTQQ/EP APRHQPPKQGEPTIPQKQ

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21772	52140	A	21900	1	2595	MESHTVTVDYNFGRLLNESFAN CETDRNYLGIFKCGFWLSGTRK SAFLTKSQVTLTRPVDHTLRNE VLGSTKYQVPGYRRKTNTNLE ESNVLIGYDVAPGGGQIDGKK AEGRELMVVPVAGRPLCRSSSM ELLLLLPLHIPREQMLLADAYW NLHQSCQSKTSPDTAKCPLDRC PRVFKSQSYKASTFDGLSMDTE VIKSNGKQGWQRRLANMKDI DKQTQAATFVL SQGMQRSGND RIILVTGASDGIGREAAAMTYAR YGATVILLGRNEEKLQVASHI NEETGRQPQWFILDLTCTSEN CQQLAQRIAVNYPRLDGVLHN AGLLGDVCPMSEQNPOVWQD VMQLFRAGIINADPGAFFVTGF RRYCCFTLCCRSFRFGFYRRRF RHRSCRQRAMRHS GTGQGQGN EQCFNSVFHTVFSLFVNSGITLT AVKTVNKKWCSEMEKAAKAT FSCYSCNAFFCEAAASGLLLFQRI ANFDRLFTQVTHQSFKDDLGI KMETTKPSFQDVLEFVRLFRRK NKLQREIQDVEKKIRDNQKRVL LLDNLSDYIKPGMSVEAIQGIIA SMKGDYEDRVDDYIIKNAELSK ERRDISKKLKAMGEMKNGEAN RKERSMFRDRPLKRMKSKRD DDSYDEDVEDDEGVGEVRVHR VNHAPANAQEHEAARPSQHQ YQPPYASAPRQPVQPPEAQV
21773	52141	A	21901	1	96	
21774	52142	A	21902	105	430	ASIFVMLVRGAEPMEKRQQRG LFTVPGLLLAFCSHVLSCVNPLI PVDNPPYPLSELIPAPQPNDR AQRVSRGSGRAPNTQTASPR LADSLMQLARQVSRLESGQ